



FCC RADIO TEST REPORT

FCC ID : 2AVDZCM27
Equipment : IEEE 802.11 2X2 MIMO a/b/g/n/ac Wireless
LAN + Bluetooth + NFC NGFF Module
Brand Name : LiveU, Inc.
Model Name : AW-CM276NF
Applicant : LiveU, Inc
2 University Plaza Drive Suite 505,
Hackensack, New Jersey
Manufacturer : LiveU, Inc
5 Hagavish St, Kfar Saba 4442211, Israel
Standard : FCC Part 15 Subpart E §15.407

The product was received on Jul. 01, 2022 and testing was performed from Jul. 08, 2022 to Aug. 13, 2025. We, Sporton International (USA) Inc., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this partial report apply exclusively to the tested model / sample. Without written approval from Sporton International (USA) Inc., the test report shall not be reproduced except in full.

Approved by: Neil Kao

Sporton International (USA) Inc.
1175 Montague Expressway, Milpitas, CA 95035



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History of this test report

Report No.	Version	Description	Issue Date
FR220617002D	01	Initial issue of report	Aug. 20, 2025
FR220617002D	02	Revised Appendix A and Appendix C This report is an updated version, replacing the report issued on Aug. 20, 2025.	Oct. 13, 2025
FR220617002D	03	Revised Appendix A This report is an updated version, replacing the report issued on Oct. 13, 2025.	Oct. 16, 2025

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.407(a)	Maximum Conducted Output Power	Pass	-
3.2	15.407(b)	Unwanted Emissions	Pass	.
3.3	15.207	AC Conducted Emission	Pass	-
3.4	15.203	Antenna Requirement	Pass	-

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty".

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Leon Huang

Report Producer: Shannon Huang

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature		
General Specs Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n, and Wi-Fi 5GHz 802.11a/n/ac.		
Antenna Type WLAN: <Ant. 1>PCB printed antenna inverted F <Ant. 2>PCB printed antenna inverted F Bluetooth: <Ant. 2>PCB printed antenna inverted F		
Antenna information		
5150 MHz ~ 5250 MHz	Peak Gain(dBi)	<Ant. 1>:4.05 <Ant. 2>:4.43
5250 MHz ~ 5350 MHz	Peak Gain(dBi)	<Ant. 1>:4.25 <Ant. 2>:4.51
5470 MHz ~ 5725 MHz	Peak Gain(dBi)	<Ant. 1>:3.56 <Ant. 2>:2.57

Remark: The EUT's information above is declared by manufacturer. Please refer to Disclaimer in report summary

1.1.1 Antenna Directional Gain

<For CDD Mode>

Follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01 F2)f)ii)

Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows:

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$.

G_{ANT} is set equal to the gain of the antenna having the highest gain.

For PSD measurements, the directional gain calculation.

Array Gain = $10 \log(N_{ANT}/N_{SS})$ dB.

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

N_{SS} = the number of independent spatial streams of data;

N_{ANT} = the total number of antennas

$g_{j,k} = 10^{G_k/20}$ if the k th antenna is being fed by spatial stream j , or zero if it is not;
 G_k is the gain in dBi of the k th antenna.

As minimum $N_{SS}=1$ is supported by EUT, the formula can be simplified as:

Directional gain = $10 \cdot \log[(10^{G_1/20} + 10^{G_2/20} + \dots + 10^{G_N/20})^2 / N_{ANT}]$ dBi

Where $G_1, G_2, \dots, G_N$ denote single antenna gain.

The directional gain "DG" is calculated as following table.

			DG for	Power Limit
	Ant 1	Ant 2	Power	Reduction
	(dBi)	(dBi)	(dBi)	(dB)
Band I	4.05	4.43	4.43	0.00
Band II	4.25	4.51	4.51	0.00
Band III	3.56	2.57	3.56	0.00



Calculation example:

If a device has two antenna, $G_{ANT1}=4.05$ dBi; $G_{ANT2}=4.43$ dBi

Directional gain of power measurement = $\max(4.05, 4.43) + 0 = 4.43$ dBi

1.2 Modification of EUT

No modifications made to the EUT during the testing.

1.3 Testing Location

Test Site	Sporton International (USA) Inc.
Test Site Location	1175 Montague Expressway, Milpitas, CA 95035 TEL : 408 9043300
Test Site No.	Sporton Site No. TH01-CA, 03CH02-CA, CO01-CA

Note: The test site complies with ANSI C63.4 2014 requirement.

FCC Designation No.: US 1250

1.4 Applicable Standards

According to the specifications declared by the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ FCC Part 15 Subpart E
- ♦ FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01.
- ♦ FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ♦ ANSI C63.10-2013

Remark:

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. The TAF code is not including all the FCC KDB listed without accreditation.

2 Test Configuration of Equipment Under Test

- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and only the worst case emissions were reported in this report.
- b. AC power line Conducted Emission was tested under maximum output power.

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5150-5250 MHz Band 1 (U-NII-1)	36	5180	44	5220
	38*	5190	46*	5230
	40	5200	48	5240
	42 [#]	5210		
Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5250-5350 MHz Band 2 (U-NII-2A)	52	5260	60	5300
	54*	5270	62*	5310
	56	5280	64	5320
	58 [#]	5290		
Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5470-5725 MHz Band 3 (U-NII-2C)	100	5500	112	5560
	102*	5510	116	5580
	104	5520	132	5660
	106 [#]	5530	134*	5670
	108	5540	136	5680
	110*	5550	140	5700

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
TDWR Channel	118*	5590	124	5620
	120	5600	126*	5630
	122 [#]	5610	128	5640

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
Straddle Channel	138 [#]	5690	144	5720
	142*	5710		

Note:

1. The above Frequency and Channel with "*" are 802.11n HT40 and 802.11ac VHT40.
2. The above Frequency and Channel with "[#]" are 802.11ac VHT80.

2.2 Test Mode

The SISO mode conducted power is covered by MIMO mode per chain, so only the MIMO mode is tested.

The final test modes include the worst data rates for each modulation shown in the table below.

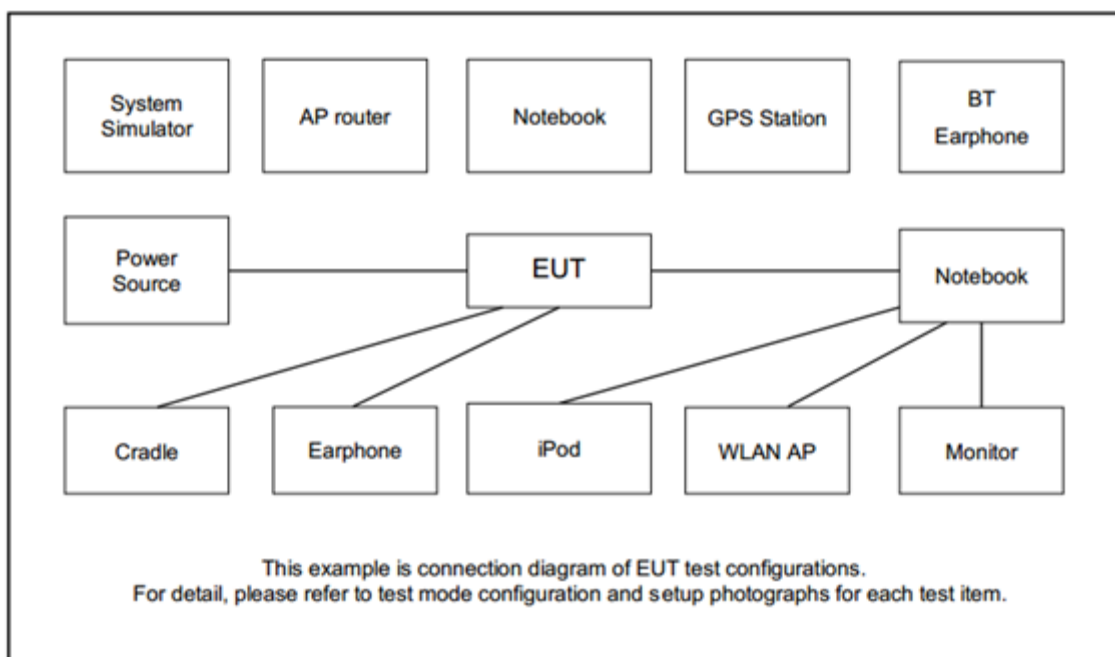
MIMO Mode

Modulation	Data Rate
802.11a	6 Mbps
802.11ac VHT20	MCS0
802.11ac VHT40	MCS0
802.11ac VHT80	MCS0

Remark: The conducted power level of each chain in MIMO mode is equal or higher than SISO mode.

Test Cases	
AC Conducted Emission	Mode 1 :WLAN 5G TX
Remark: 1. The detailed Radiated test modes are shown in Appendix C.	

2.3 Connection Diagram of Test System



2.4 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Laptop	Acer	Altos PS548-G1	N/A	N/A	N/A

Remark: Applicant has ensured support unit would not be attached with the product on the market, support unit is provided by lab for testing.



2.5 EUT Operation Test Setup

The RF test items, utility “PuTTY Release 0.62 & Labtool DutApiMimoBtFmBridgeEth.exe” was installed in Laptop which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

3 Test Result

3.1 Maximum Conducted Output Power Measurement

3.1.1 Limit of Maximum Conducted Output Power

<FCC 14-30 CFR 15.407>

For the 5.15–5.25 GHz bands:

■ For mobile and portable client devices in the 5.15–5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW. For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

For the 5.25–5.725 GHz bands:

■ The maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz.

For Straddle Channel, according to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, if the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Note that U-NII-2 band, devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W.

3.1.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

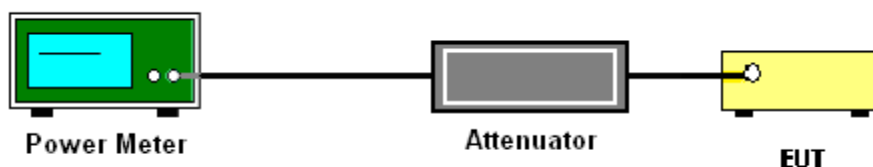
3.1.3 Test Procedures

The testing follows Method PM-G of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

Method PM-G (Measurement using a gated RF average power meter):

1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit at its maximum power control level.
3. Measure the average power of the transmitter.
4. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.
5. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01

3.1.4 Test Setup



3.1.5 Test Result of Maximum Conducted Output Power

Please refer to Appendix A.

3.2 Unwanted Emissions Measurement

This section is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement.

3.2.1 Limit of Unwanted Emissions

- (1) For transmitters operating in the 5150-5250 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of -27dBm/MHz.

For transmitters operating in the 5250-5350 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of -27 dBm/MHz. Devices operating in the 5250-5350 MHz band that generate emissions in the 5150-5250 MHz band must meet all applicable technical requirements for operation in the 5150-5250 MHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5150-5250 MHz band.

For transmitters operating in the 5470-5600 MHz and 5650-5725MHz band: all emissions outside of the 5470-5600 MHz and 5650-5725MHz band shall not exceed an EIRP of -27 dBm/MHz.

- (2) Unwanted spurious emissions falls in restricted bands shall comply with the general field strength limits as below table:

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

Note: The following formula is used to convert the EIRP to field strength.

$$E = \frac{1000000\sqrt{30P}}{3} \text{ } \mu\text{V/m, where P is the eirp (Watts)}$$

EIRP (dBm)	Field Strength at 3m (dBμV/m)
- 27	68.3

(3) KDB789033 D02 v02r01 G)2)c)

(i) Sections 15.407(b)(1-3) specifies the unwanted emissions limit for the U-NII-1 and U-NII-2 bands. As specified, emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit of -27 dBm/MHz.

(ii) Section 15.407(b)(4) specifies the unwanted emissions limit for the U-NII-3 band. A band emissions mask is specified in Section 15.407(b)(4)(i). The emission limits are based on the use of a peak detector.

3.2.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.2.3 Test Procedures

- The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section G) Unwanted emissions measurement.

(1) Procedure for Unwanted Emissions Measurements Below 1000 MHz

- RBW = 120 kHz
- VBW = 300 kHz
- Detector = Peak
- Trace mode = max hold

(2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz

- RBW = 1 MHz
- VBW ≥ 3 MHz
- Detector = Peak
- Sweep time = auto
- Trace mode = max hold

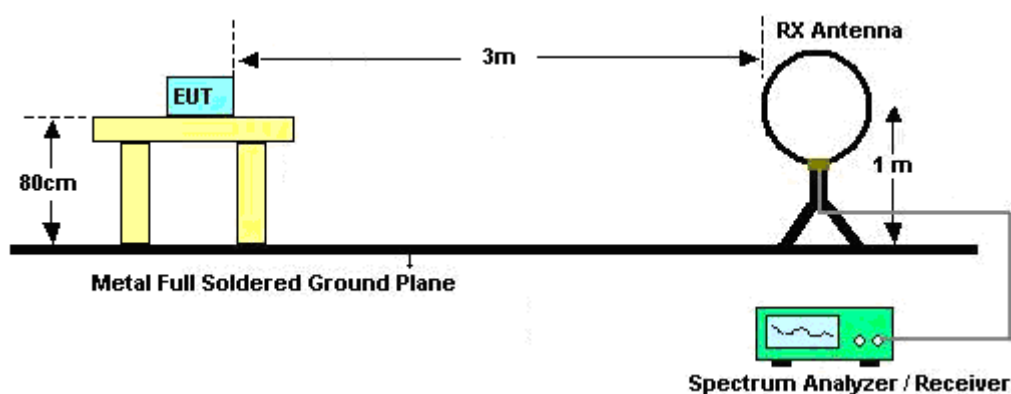
(3) Procedures for Average Unwanted Emissions Measurements Above 1000 MHz

- RBW = 1 MHz
- VBW = 10 Hz, when duty cycle is no less than 98 percent.
- VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

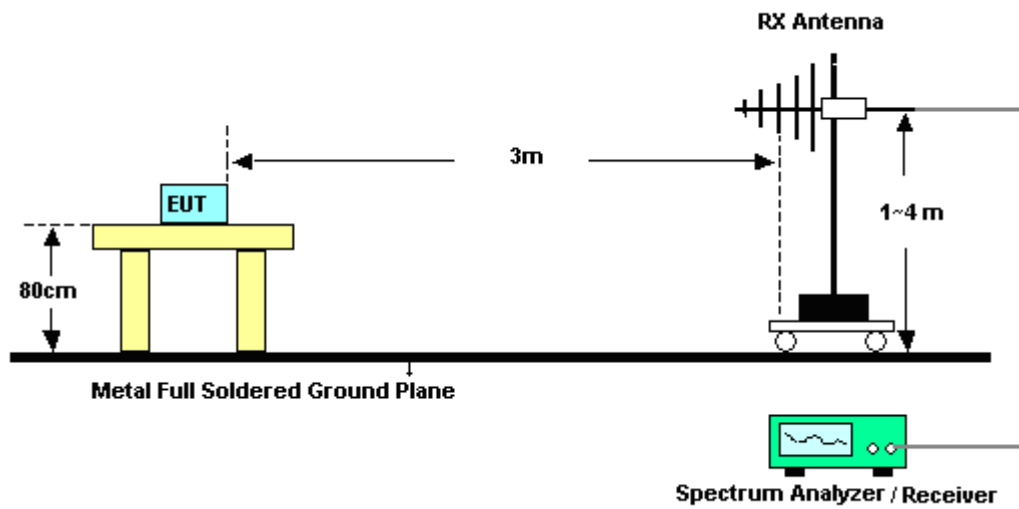
2. The EUT is placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
3. The EUT is set 3 meters away from the receiving antenna which is mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT is arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. Radiated testing below 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6 dB margin against QP limit line, the position is marked as “-”.
7. Radiated testing above 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading for scanning all frequencies. When there is no suspected emission found and the harmonic emission level is with at least 6 dB margin against average limit line, the position is marked as “-”.

3.2.4 Test Setup

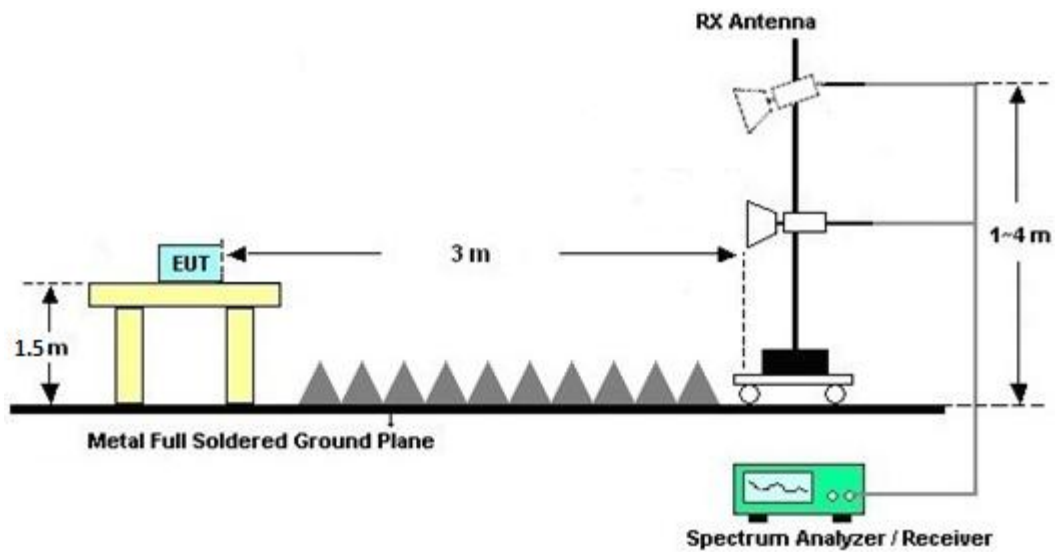
For radiated emissions below 30MHz



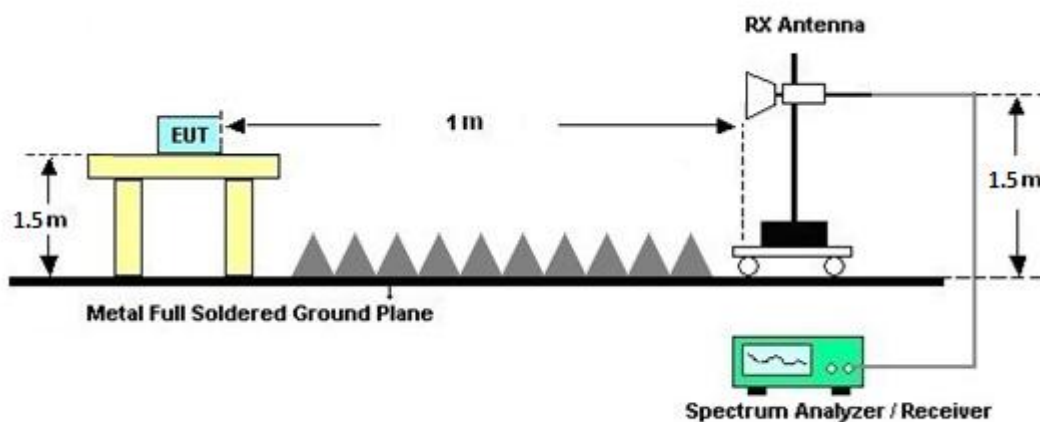
For radiated emissions from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



3.2.5 Test Results of Radiated Spurious Emissions (9 kHz ~ 30 MHz)

The low frequency, which starts from 9 kHz to 30 MHz, is pre-scanned and the result which is 20 dB lower than the limit line is not reported.

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

3.2.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C.

3.2.7 Duty Cycle

Please refer to Appendix D.

3.2.8 Test Result of Radiated Spurious Emissions (30MHz ~ 10th Harmonic)

Please refer to Appendix C.

3.3 AC Conducted Emission Measurement

3.3.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of emission (MHz)	Conducted limit (dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

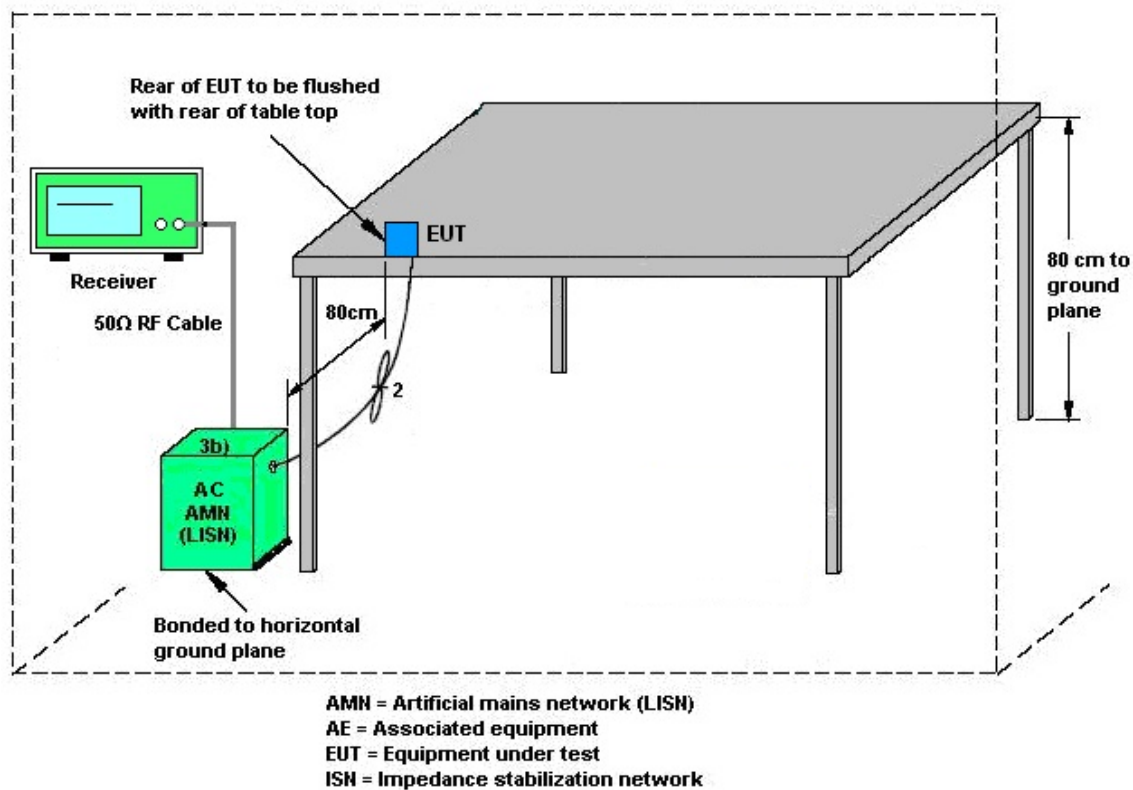
3.3.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.3.3 Test Procedures

1. The EUT is placed 0.4 meter away from the conducting wall of the shielding room, and is kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN shall be used.
6. Both Line and Neutral shall be tested in order to find out the maximum conducted emission.
7. The frequency range from 150 kHz to 30 MHz is scanned.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

3.3.4 Test Setup



3.3.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.4 Antenna Requirements

3.4.1 Standard Applicable

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of § 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

3.4.2 Antenna Anti-Replacement Construction

Antenna permanently attached.



4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Bilog Antenna	TESEQ	6111D	50392	30MHz~1GHz	Aug.13, 2024	Jul. 01, 2025~ Jul. 16, 2025	Aug. 12, 2025	Radiation (03CH02-CA)
Bilog Antenna	TESEQ	6111D	50392	30MHz~1GHz	Sep.05, 2023	Jun. 25, 2024~ Sep. 03, 2024	Sep. 04, 2024	Radiation (03CH02-CA)
Bilog Antenna	TESEQ	6111D	50392	30MHz~1GHz	Aug.13, 2024	Sep. 04, 2024~ Oct. 02, 2024	Aug. 12, 2025	Radiation (03CH02-CA)
Horn Antenna	SCHWARZBE CK	BBHA 9170D	00842	18GHz~40GHz	Aug. 19, 2024	Jul. 01, 2025~ Jul. 16, 2025	Aug. 18, 2025	Radiation (03CH02-CA)
Horn Antenna	SCHWARZBE CK	BBHA 9170D	00842	18GHz~40GHz	Aug. 19, 2024	Sep. 30, 2024	Aug. 18, 2025	Radiation (03CH02-CA)
Horn Antenna	SCHWARZBE CK	BBHA 9120D	02140	1GHz~18GHz	Jan. 29, 2024	Jun. 25, 2024~ Oct. 02, 2024	Jan. 28, 2025	Radiation (03CH02-CA)
Amplifier	SONOMA	310N	372240	N/A	Apr.14, 2025	Jul. 01, 2025~ Jul. 16, 2025	Apr. 13, 2026	Radiation (03CH02-CA)
Preamplifier	Keysight	83017A	MY53270323	1GHz~26.5GHz	Apr. 24, 2024	Jun. 25, 2024~ Oct. 02, 2024	Apr. 23, 2025	Radiation (03CH02-CA)
Preamplifier	E-instrument	ERA-100M- 18G-56-01- A70	EC1900251	1GHz~18GHz	Apr. 24, 2024	Jun. 25, 2024~ Oct. 02, 2024	Apr. 23, 2025	Radiation (03CH02-CA)
Preamplifier	EMEC	EMC18G40G	060726	18GHz~40GHz	Apr.04, 2024	Sep. 30, 2024	Apr. 03, 2025	Radiation (03CH02-CA)
Preamplifier	EMEC	EMC18G40G	060726	18GHz~40GHz	Apr. 15, 2025	Jul. 01, 2025~ Jul. 16, 2025	Apr. 14, 2026	Radiation (03CH02-CA)
RF Cable	HUBER+SUH NER	SUCOFLEX 102	804209/2, 802406/2, 802875/2, 802952/2	N/A	Oct. 10, 2024	Jul. 01, 2025~ Jul. 16, 2025	Oct. 09, 2025	Radiation (03CH02-CA)
RF Cable	HUBER+SUH NER	SUCOFLEX 102	804209/2, 802406/2, 802875/2, 802952/2	N/A	Oct. 13, 2023	Jun. 25, 2024~ Oct. 02, 2024	Oct. 12, 2024	Radiation (03CH02-CA)
Spectrum Analyzer	Keysight	N9010A	MY57420221	10Hz~44GHz	Aug. 14, 2024	Jul. 01, 2025~ Jul. 16, 2025	Aug. 13, 2025	Radiation (03CH02-CA)
Spectrum Analyzer	Keysight	N9010A	MY57420221	10Hz~44GHz	Aug. 30, 2023	Jun. 25, 2024~ Aug. 13, 2024	Aug. 29, 2024	Radiation (03CH02-CA)
Spectrum Analyzer	Keysight	N9010A	MY57420221	10Hz~44GHz	Aug. 14, 2024	Aug. 14, 2024~ Oct. 02, 2024	Aug. 13, 2025	Radiation (03CH02-CA)
Filter	Wainwright	WLK12-1200- 1272-11000- 40SS	SN2	1.2GHz Low Pass Filter	Jun. 03, 2025	Jul. 01, 2025~ Jul. 16, 2025	Jun. 02, 2026	Radiation (03CH02-CA)
Filter	WOKEN	WFIL-H6750- 18000F	WR67BWC6B 1	6.75GHz High Pass Filter	Jun. 04, 2024	Jun. 25, 2024~ Oct. 02, 2024	Jun. 03, 2025	Radiation (03CH02-CA)
Hygrometer	TESEO	608-H1	45142602	N/A	Aug. 14, 2024	Jul. 01, 2025~ Jul. 16, 2025	Aug. 13, 2025	Radiation (03CH02-CA)
Hygrometer	TESEO	608-H1	45142602	N/A	Aug. 30, 2023	Jun. 25, 2024~ Aug. 13, 2024	Aug. 29, 2024	Radiation (03CH02-CA)
Hygrometer	TESEO	608-H1	45142602	N/A	Aug. 14, 2024	Aug. 14, 2024~ Oct. 02, 2024	Aug. 13, 2025	Radiation (03CH02-CA)
Controller	ChainTek	EM-1000	060876	NA	N/A	Jun. 25, 2024~ Jul. 16, 2025	N/A	Radiation (03CH02-CA)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Jun. 25, 2024~ Jul. 16, 2025	N/A	Radiation (03CH02-CA)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Jun. 25, 2024~ Jul. 16, 2025	N/A	Radiation (03CH02-CA)
Software	Audix	E3	N/A	N/A	N/A	Jun. 25, 2024~ Jul. 16, 2025	N/A	Radiation (03CH02-CA)



Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
LISN	TESEQ	NNB51	47415	N/A	Aug. 14,2024	Jul. 23, 2025	Aug. 13,2025	Conduction (CO01-CA)
LISN	TESEQ	NNB51	47407	N/A	Apr 15, 2025	Jul. 23, 2025	Apr. 14, 2026	Conduction (CO01-CA)
EMI Test Receiver	R&S	ESR7	102177	9kHz~7GHz	Apr. 15, 2025	Jul. 23, 2025	Apr. 14, 2026	Conduction (CO01-CA)
Pulse limiter with 10dB attenuation	R&S	VTSD 9561-F N	9561-F-N00412	N/A	Jun. 04, 2024	Jul. 23, 2025	Jun. 02, 2026	Conduction (CO01-CA)
LISN Cable	HUBER+SUHNER	RG-214/U	LISN cable - 01	N/A	Jun. 04, 2024	Jul. 23, 2025	Jun. 02, 2026	Conduction (CO01-CA)
Test Software	R&S	EMC32 V10.30.0	N/A	N/A	N/A	Jul. 23, 2025	N/A	Conduction (CO01-CA)
Hygrometer	Testo	608-H1	45141354	N/A	Jul.30, 2021	Jul.08, 2022	Jul.29, 2022	Conducted (TH01-CA)
Power Sensor	DARE!!	RPR3006W	RPR6W-1901024	10MHz-8GHz	May 10, 2022	Jul.08, 2022	May 09, 2023	Conducted (TH01-CA)
Switch Box	EM Electronics	EMSW26	1090304	N/A	Mar 30, 2022	Jul.08, 2022	Mar 29, 2023	Conducted (TH01-CA)

5 Measurement Uncertainty

Uncertainty of Conducted Emission Measurement (150kHz ~ 30MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	3.9 dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	5.0 dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	5.4 dB
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Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	4.5 dB
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Appendix A. Test Result of Conducted Test Items

Test Engineer:	Liliana Gonzalez	Temperature:	22.1~25.2	°C
Test Date:	2022/07/07~2022/07/08	Relative Humidity:	48.7~50.8	%

TEST RESULTS DATA
Average Power Table

FCC Band I MIMO												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2	
11a	6Mbps	2	36	5180	14.88	14.60	17.75	24.00		4.43		Pass
11a	6Mbps	2	40	5200	14.74	14.41	17.59	24.00		4.43		Pass
11a	6Mbps	2	44	5220	18.47	18.18	21.34	24.00		4.43		Pass
11a	6Mbps	2	48	5240	18.58	18.35	21.48	24.00		4.43		Pass
VHT20	MCS0	2	36	5180	15.05	14.51	17.80	24.00		4.43		Pass
VHT20	MCS0	2	40	5200	14.97	14.49	17.75	24.00		4.43		Pass
VHT20	MCS0	2	44	5220	18.65	18.14	21.41	24.00		4.43		Pass
VHT20	MCS0	2	48	5240	18.79	18.33	21.58	24.00		4.43		Pass
VHT40	MCS0	2	38	5190	13.62	12.98	16.32	24.00		4.43		Pass
VHT40	MCS0	2	46	5230	16.76	16.25	19.52	24.00		4.43		Pass
VHT80	MCS0	2	42	5210	13.35	12.48	15.95	24.00		4.43		Pass

TEST RESULTS DATA
Average Power Table

FCC Band II MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	52	5260	18.70	18.39	21.56	23.98		4.51		26.99	Pass
11a	6Mbps	2	60	5300	18.67	18.32	21.51	23.98		4.51		26.99	Pass
11a	6Mbps	2	64	5320	13.50	13.35	16.44	23.98		4.51		26.99	Pass
VHT20	MCS0	2	52	5260	18.93	18.40	21.68	23.98		4.51		26.99	Pass
VHT20	MCS0	2	60	5300	18.90	18.15	21.55	23.98		4.51		26.99	Pass
VHT20	MCS0	2	64	5320	13.95	13.33	16.66	23.98		4.51		26.99	Pass
VHT40	MCS0	2	54	5270	17.02	16.43	19.75	23.98		4.51		26.99	Pass
VHT40	MCS0	2	62	5310	12.85	12.30	15.59	23.98		4.51		26.99	Pass
VHT80	MCS0	2	58	5290	13.23	12.63	15.95	23.98		4.51		26.99	Pass

TEST RESULTS DATA
Average Power Table

FCC Band III MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	100	5500	14.33	13.93	17.14	23.98		3.56		26.99	Pass
11a	6Mbps	2	116	5580	18.41	17.99	21.22	23.98		3.56		26.99	Pass
11a	6Mbps	2	140	5700	13.57	13.06	16.33	23.98		3.56		26.99	Pass
VHT20	MCS0	2	100	5500	13.38	12.88	16.15	23.98		3.56		26.99	Pass
VHT20	MCS0	2	116	5580	18.40	17.98	21.21	23.98		3.56		26.99	Pass
VHT20	MCS0	2	140	5700	13.70	13.12	16.43	23.98		3.56		26.99	Pass
VHT40	MCS0	2	102	5510	13.33	12.92	16.14	23.98		3.56		26.99	Pass
VHT40	MCS0	2	110	5550	17.32	16.97	20.16	23.98		3.56		26.99	Pass
VHT40	MCS0	2	134	5670	13.52	13.06	16.31	23.98		3.56		26.99	Pass
VHT80	MCS0	2	106	5530	11.83	11.41	14.64	23.98		3.56		26.99	Pass
VHT80	MCS0	2	122	5610	14.72	14.34	17.54	23.98		3.56		26.99	Pass

FCC Band III straddle channel MIMO													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			FCC Conducted Power Limit (dBm)		DG (dBi)		EIRP Power Limit (dBm)	Pass/Fail
					Ant 1	Ant 2	SUM	Ant 1	Ant 2	Ant 1	Ant 2		
11a	6Mbps	2	144	5720	13.41	12.87	16.16	23.98		3.56		26.99	Pass
VHT20	MCS0	2	144	5720	13.48	13.01	16.26	23.98		3.56		26.99	Pass
VHT40	MCS0	2	142	5710	13.51	13.01	16.28	23.98		3.56		26.99	Pass
VHT80	MCS0	2	138	5690	14.91	14.48	17.71	23.98		3.56		26.99	Pass



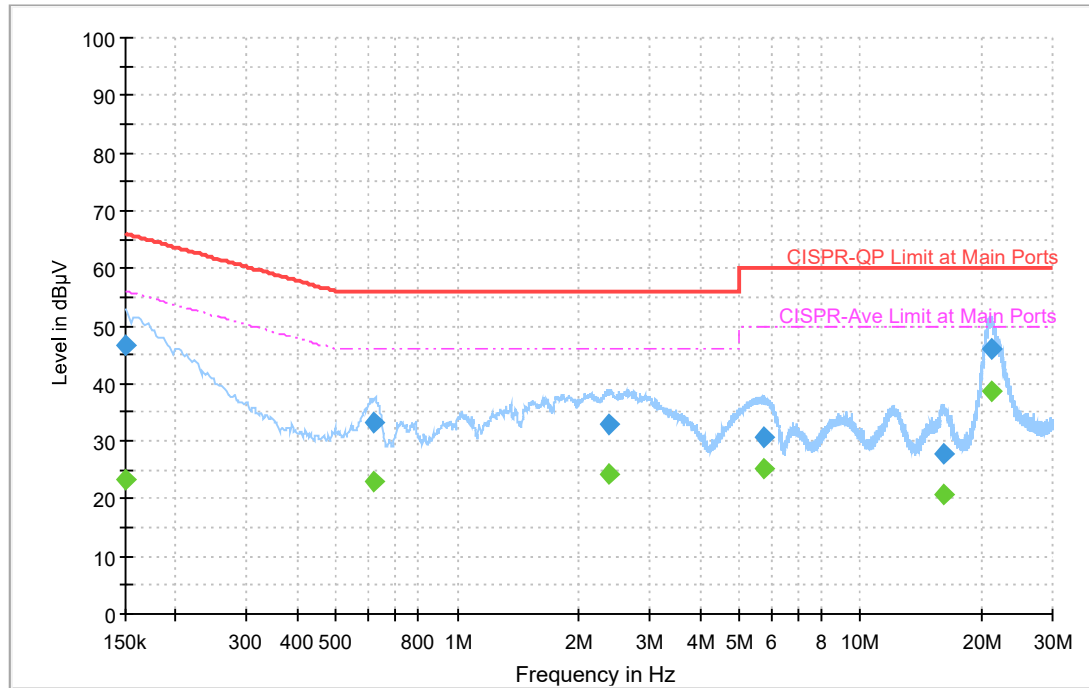
Appendix B. AC Conducted Emission Test Results

Test Engineer :	Jin Peng	Temperature :	21.2 ~ 23.1℃
		Relative Humidity :	42.1 ~ 43.9%

EUT Information

Test Site Location : CO01-CA
Project 220617002
Power: 120Vac/60Hz
Mode 2
Line

Full Spectrum



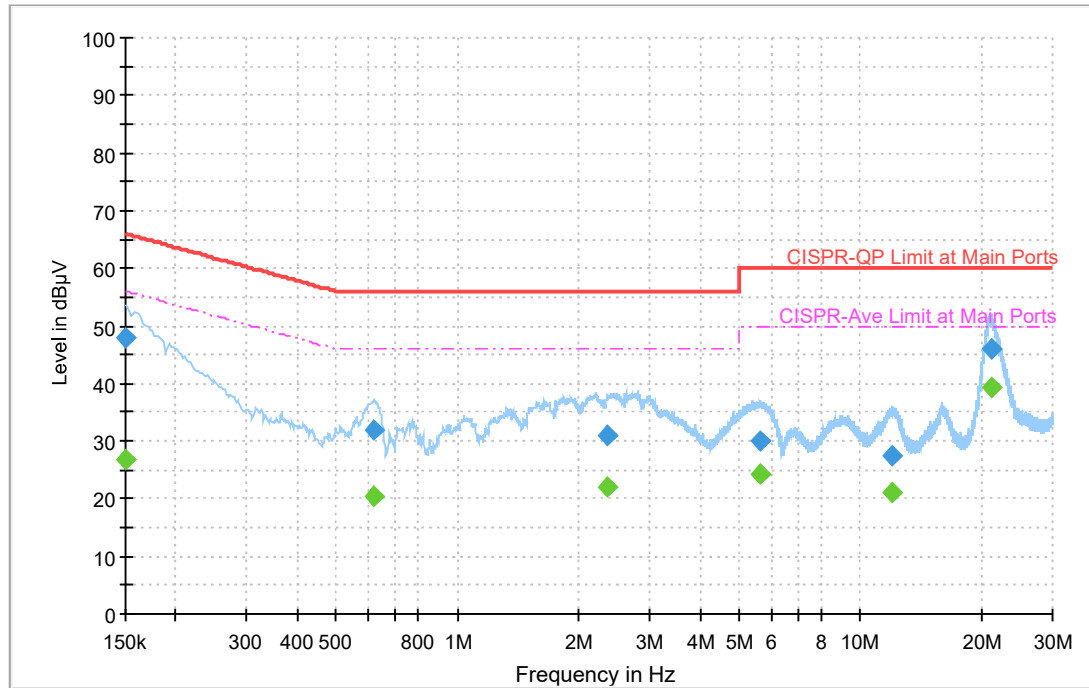
Final Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Line	Filter	Corr. (dB)
0.150558	---	23.34	55.97	32.63	L1	OFF	20.5
0.150558	46.52	---	65.97	19.45	L1	OFF	20.5
0.621168	---	23.00	46.00	23.00	L1	OFF	20.1
0.621168	33.28	---	56.00	22.72	L1	OFF	20.1
2.374026	---	24.29	46.00	21.71	L1	OFF	20.1
2.374026	32.91	---	56.00	23.09	L1	OFF	20.1
5.762787	---	25.20	50.00	24.80	L1	OFF	20.5
5.762787	30.81	---	60.00	29.19	L1	OFF	20.5
16.172988	---	20.69	50.00	29.31	L1	OFF	21.5
16.172988	27.85	---	60.00	32.15	L1	OFF	21.5
21.037515	---	38.70	50.00	11.30	L1	OFF	22.0
21.037515	46.01	---	60.00	13.99	L1	OFF	22.0

EUT Information

Test Site Location : CO01-CA
 Project : 220617002
 Power: 120Vac/60Hz
 Mode : 2
 Neutral

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Line	Filter	Corr. (dB)
0.150158	---	26.85	55.99	29.14	N	OFF	20.5
0.150158	47.77	---	65.99	18.22	N	OFF	20.5
0.622347	---	20.57	46.00	25.43	N	OFF	20.1
0.622347	32.05	---	56.00	23.95	N	OFF	20.1
2.358411	---	22.08	46.00	23.92	N	OFF	20.1
2.358411	31.10	---	56.00	24.90	N	OFF	20.1
5.654121	---	24.28	50.00	25.72	N	OFF	20.5
5.654121	30.00	---	60.00	30.00	N	OFF	20.5
12.034167	---	21.11	50.00	28.89	N	OFF	21.2
12.034167	27.48	---	60.00	32.52	N	OFF	21.2
21.143868	---	39.26	50.00	10.74	N	OFF	22.1
21.143868	45.98	---	60.00	14.02	N	OFF	22.1



Appendix C. Radiated Spurious Emission

Test Engineer :	Renz Roxas, Minh Nguyen, Jesse Fan, and Kevin Hsu	Temperature :	15.2 ~ 25.4°C
		Relative Humidity :	35.7 ~ 50.3%



Band 1 - 5150~5250MHz

WIFI 802.11a (Band Edge @ 3m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a CH 36 5180MHz		5146.38	58.05	-15.95	74	42.58	33.1	12.29	29.92	100	289	P	H
		5146.38	47.32	-6.68	54	31.85	33.1	12.29	29.92	100	289	A	H
	*	5180	97.66	-	-	82.21	33.05	12.31	29.91	100	289	P	H
		5180	49.5	-4.5	54	34.05	33.05	12.31	29.91	200	322	A	H
	*	5182	91.5	-	-	76.04	33.05	12.32	29.91	100	289	A	H
													H
		5148.2	59.46	-14.54	74	44	33.09	12.29	29.92	140	32	P	V
		5147.94	52.08	-1.92	54	36.62	33.09	12.29	29.92	140	32	A	V
	*	5180	108.09	-	-	92.64	33.05	12.31	29.91	140	32	P	V
	*	5180	101.59	-	-	86.14	33.05	12.31	29.91	140	32	A	V
													V
													V
802.11a CH 40 5200MHz		5107.38	56.17	-17.83	74	40.65	33.17	12.26	29.91	300	348	P	H
		5146.38	47.23	-6.77	54	31.76	33.1	12.29	29.92	300	348	A	H
	*	5200	103.78	-	-	88.32	33.03	12.33	29.9	300	348	P	H
	*	5200	96.71	-	-	81.25	33.03	12.33	29.9	300	348	A	H
		5440.96	55.33	-18.67	74	39.65	32.94	12.65	29.91	300	348	P	H
		5433.68	46.36	-7.64	54	30.67	32.96	12.64	29.91	300	348	A	H
		5146.9	64.06	-9.94	74	48.59	33.1	12.29	29.92	100	35	P	V
		5147.68	52.02	-1.98	54	36.56	33.09	12.29	29.92	100	35	A	V
	*	5200	114.73	-	-	99.27	33.03	12.33	29.9	100	35	P	V
	*	5200	107.86	-	-	92.4	33.03	12.33	29.9	100	35	A	V
		5416.32	57.28	-16.72	74	41.57	33	12.62	29.91	100	35	P	V
		5360.6	51.8	-2.2	54	36.08	33.07	12.55	29.9	100	35	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line. 3. The emission position marked as "-" means no suspected emission found and/or emission level has at least 6dB margin against limit or noise floor only.												



WIFI 802.11a (Harmonic @ 3m)

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WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 40 5200MHz		10400	58.94	-9.26	68.2	70.83	38.78	17.82	68.49	100	272	P	H
		15600	49.68	-24.32	74	56.42	38.27	21.96	66.97	361	360	A	H
		15600	39.05	-14.95	54	45.79	38.27	21.96	66.97	361	360	A	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		7803	48.34	-19.86	68.2	62.85	36.83	15.54	66.88	111	14	P	V
		10400	57.77	-10.43	68.2	69.66	38.78	17.82	68.49	400	357	P	V
		15600	47.47	-26.53	74	54.21	38.27	21.96	66.97	-	-	P	V
													V
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												V	
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												
	3. The emission position marked as “-” means no suspected emission found and/or emission level has at least 6dB margin against limit or noise floor only.												

Band 1 5150~5250MHz
WIFI 802.11ac VHT40 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT40 CH 38 5190MHz		5119.34	56.22	-17.78	74	40.72	33.14	12.27	29.91	100	259	P	H
		5149.26	48.2	-5.8	54	32.74	33.09	12.29	29.92	100	259	A	H
	*	5190	95.89	-	-	80.43	33.04	12.32	29.9	100	259	P	H
	*	5190	89.16	-	-	73.7	33.04	12.32	29.9	100	259	A	H
		5454	55.97	-18.03	74	40.29	32.92	12.67	29.91	100	259	P	H
		5397.12	47.03	-6.97	54	31.3	33.04	12.6	29.91	100	259	A	H
		5147.56	61.14	-12.86	74	45.68	33.09	12.29	29.92	100	40	P	V
		5142.8	53.12	-0.88	54	37.66	33.1	12.28	29.92	100	40	A	V
	*	5190	105.82	-	-	90.36	33.04	12.32	29.9	100	40	P	V
	*	5190	99.5	-	-	84.04	33.04	12.32	29.9	100	40	A	V
		5417.28	56.18	-17.82	74	40.47	33	12.62	29.91	100	40	P	V
		5444.04	50.2	-3.8	54	34.67	32.93	12.66	29.91	100	40	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line. 3. The emission position marked as “-” means no suspected emission found and/or emission level has at least 6dB margin against limit or noise floor only.												

Band 1 5150~5250MHz

WIFI 802.11ac VHT40 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBµV/m)	Over Limit (dB)	Limit Line (dBµV/m)	Read Level (dBµV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT40 CH 38 5190MHz		10380	46.93	-21.27	68.2	58.83	38.78	17.81	68.49	-	-	P	H
		14040	52.9	-15.3	68.2	58.16	41.16	20.78	67.2	300	5	P	H
		15570	49.85	-24.15	74	56.64	38.35	21.94	67.08	300	268	P	H
		15570	38.97	-15.03	54	45.76	38.35	21.94	67.08	300	268	A	H
													H
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		10380	46.19	-22.01	68.2	58.09	38.78	17.81	68.49	-	-	P	V
		14018	52.14	-16.06	68.2	57.41	41.1	20.76	67.13	100	87	P	V
		15570	48.61	-25.39	74	55.4	38.35	21.94	67.08	257	260	P	V
		15570	39.07	-14.93	54	45.86	38.35	21.94	67.08	257	260	A	V
													V
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													V
												V	
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Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line. 3. The emission position marked as “-” means no suspected emission found and/or emission level has at least 6dB margin against limit or noise floor only.												

**Band 1 5150~5250MHz****WIFI 802.11ac VHT80 (Band Edge @ 3m)**

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 42 5210MHz		5138.84	56.34	-17.66	74	40.87	33.11	12.28	29.92	400	318	P	H
		5121.42	47.54	-6.46	54	32.04	33.14	12.27	29.91	400	318	A	H
		1534	51.29	-22.71	74	50.99	25.61	6.57	31.88	203	318	P	H
	*	5210	88.47	-	-	73.01	33.02	12.34	29.9	400	318	P	H
		1534	49.41	-4.59	54	49.11	25.61	6.57	31.88	203	318	A	H
	*	5210	81.77	-	-	66.31	33.02	12.34	29.9	400	318	A	H
		5139.88	60.91	-13.09	74	45.44	33.11	12.28	29.92	110	30	P	V
		5114.66	52.32	-1.68	54	36.82	33.15	12.26	29.91	110	30	A	V
	*	5210	99.19	-	-	83.73	33.02	12.34	29.9	110	30	P	V
	*	5210	92.42	-	-	76.96	33.02	12.34	29.9	110	30	A	V
		5438.44	56.82	-17.18	74	41.13	32.95	12.65	29.91	110	30	P	V
		5427.52	49.52	-4.48	54	33.83	32.97	12.63	29.91	110	30	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line. 3. The emission position marked as “-” means no suspected emission found and/or emission level has at least 6dB margin against limit or noise floor only.												



Band 1 5150~5250MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 42 5210MHz		10420	45.49	-22.71	68.2	57.3	38.81	17.83	68.45	-	-	P	H
		15630	49.55	-24.45	74	56.54	38.22	21.98	67.19	236	169	P	H
		15630	40.3	-13.7	54	47.29	38.22	21.98	67.19	236	169	A	H
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Band 2 - 5250~5350MHz
WIFI 802.11a (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 60 5300MHz		5144.16	55.59	-18.41	74	40.12	33.1	12.29	29.92	400	43	P	H
		5096.56	47.5	-6.5	54	31.98	33.18	12.25	29.91	400	43	A	H
	*	5300	103.6	-	-	88.02	33.01	12.47	29.9	400	43	P	H
	*	5300	96.33	-	-	80.75	33.01	12.47	29.9	400	43	A	H
		5359.68	58.75	-15.25	74	43.03	33.07	12.55	29.9	400	43	P	H
		5350.08	48.67	-5.33	54	32.97	33.07	12.53	29.9	400	43	A	H
		5110.16	57.15	-16.85	74	41.64	33.16	12.26	29.91	103	30	P	V
		5107.44	50.6	-3.4	54	35.09	33.16	12.26	29.91	103	30	A	V
	*	5300	114.99	-	-	99.41	33.01	12.47	29.9	103	30	P	V
	*	5300	106.95	-	-	91.37	33.01	12.47	29.9	103	30	A	V
		5353.68	65.69	-8.31	74	49.98	33.07	12.54	29.9	103	30	P	V
		5350.08	53.45	-0.55	54	37.75	33.07	12.53	29.9	103	30	A	V
802.11a CH 64 5320MHz	*	5320	101.08	-	-	85.46	33.03	12.49	29.9	400	47	P	H
	*	5320	94.11	-	-	78.49	33.03	12.49	29.9	400	47	A	H
		5449.92	55.2	-18.8	74	39.53	32.92	12.66	29.91	400	47	P	H
		5449.44	46.56	-7.44	54	30.89	32.92	12.66	29.91	400	47	A	H
													H
													H
	*	5320	110.68	-	-	95.06	33.03	12.49	29.9	100	30	P	V
	*	5320	103.77	-	-	88.15	33.03	12.49	29.9	100	30	A	V
		5351.2	66.18	-7.82	74	50.48	33.07	12.53	29.9	100	30	P	V
		5350.24	52.17	-1.83	54	36.47	33.07	12.53	29.9	100	30	A	V
													V
													V
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												
	3. The emission position marked as “-” means no suspected emission found and/or emission level has at least 6dB margin against limit or noise floor only.												

Band 2 5250~5350MHz



WIFI 802.11a (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 60 5300MHz		10600	59.5	-14.5	74	70.3	39.04	17.97	67.81	262	60	P	H
		10600	52.32	-1.68	54	63.12	39.04	17.97	67.81	262	60	A	H
		15900	46.76	-27.24	74	54.73	37.89	22.19	68.05	-	-	P	H
													H
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		10600	59.8	-14.2	74	70.6	39.04	17.97	67.81	374	356	P	V
		10600	50.07	-3.93	54	60.87	39.04	17.97	67.81	374	356	A	V
		15900	46.68	-27.32	74	54.65	37.89	22.19	68.05	-	-	P	V
													V
													V
													V
													V
													V
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													V
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Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line. 3. The emission position marked as “-” means no suspected emission found and/or emission level has at least 6dB margin against limit or noise floor only.												



WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11a CH 64 5320MHz		10640	57.35	-16.65	74	68.13	39.16	18.01	67.95	260	66	P	H
		10640	47.43	-6.57	54	58.21	39.16	18.01	67.95	260	66	A	H
		15960	46.35	-27.65	74	53.91	37.85	22.24	67.65	-	-	P	H
													H
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		10640	55.12	-18.88	74	65.9	39.16	18.01	67.95	384	360	P	V
		10640	45.55	-8.45	54	56.33	39.16	18.01	67.95	384	360	A	V
		15960	46.98	-27.02	74	54.54	37.85	22.24	67.65	-	-	P	V
													V
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Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												
	3. The emission position marked as “-” means no suspected emission found and/or emission level has at least 6dB margin against limit or noise floor only.												

Band 2 5250~5350MHz
WIFI 802.11ac VHT40 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT40 CH 62 5310MHz		5070.04	55.78	-18.22	74	40.31	33.16	12.23	29.92	400	46	P	H
		5132.94	46.76	-7.24	54	31.28	33.12	12.28	29.92	400	46	A	H
	*	5310	96.58	-	-	80.98	33.02	12.48	29.9	400	46	P	H
	*	5310	90.19	-	-	74.59	33.02	12.48	29.9	400	46	A	H
		5411.76	56.77	-17.23	74	41.06	33.01	12.61	29.91	400	46	P	H
		5350.32	47.94	-6.06	54	32.24	33.07	12.53	29.9	400	46	A	H
		5107.44	57.21	-16.79	74	41.7	33.16	12.26	29.91	118	28	P	V
		5067.66	49.41	-4.59	54	33.96	33.15	12.22	29.92	118	28	A	V
	*	5310	106.64	-	-	91.04	33.02	12.48	29.9	118	28	P	V
	*	5310	99.69	-	-	84.09	33.02	12.48	29.9	118	28	A	V
		5352.72	61.89	-12.11	74	46.18	33.07	12.54	29.9	118	28	P	V
		5353.92	53.8	-0.2	54	38.09	33.07	12.54	29.9	118	28	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line. 3. The emission position marked as “-” means no suspected emission found and/or emission level has at least 6dB margin against limit or noise floor only.												



Band 2 5250~5350MHz

WIFI 802.11ac VHT40 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT40 CH 62 5310MHz		11020	46.02	-27.98	74	56.29	38.97	18.3	67.54	-	-	P	H
		16530	49.83	-18.37	68.2	56.29	38.29	22.72	67.47	311	46	P	H
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													H
		11020	47.63	-26.37	74	57.9	38.97	18.3	67.54	-	-	P	V
		16530	50.08	-18.12	68.2	56.54	38.29	22.72	67.47	197	107	P	V
													V
													V
													V
													V
													V
													V
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Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line. 3. The emission position marked as “-” means no suspected emission found and/or emission level has at least 6dB margin against limit or noise floor only.												

Band 2 5250~5350MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 58 5290MHz		5120.7	55.64	-18.36	74	40.14	33.14	12.27	29.91	107	259	P	H
		5141.44	46.86	-7.14	54	31.39	33.11	12.28	29.92	107	259	A	H
	*	5290	90.67	-	-	75.12	33	12.45	29.9	107	259	P	H
		1535	50.63	-3.37	54	50.32	25.61	6.58	31.88	107	259	A	H
	*	5290	83.77	-	-	68.22	33	12.45	29.9	107	259	A	H
		5442.48	55.8	-18.2	74	40.12	32.94	12.65	29.91	107	259	P	H
		5129.2	57.06	-16.94	74	41.58	33.13	12.27	29.92	121	29	P	V
		5104.04	49.09	-4.91	54	33.58	33.17	12.25	29.91	121	29	A	V
	*	5290	100.82	-	-	85.27	33	12.45	29.9	121	29	P	V
	*	5290	94.18	-	-	78.63	33	12.45	29.9	121	29	A	V
		5350.08	59.67	-14.33	74	43.97	33.07	12.53	29.9	121	29	P	V
		5353.2	53.55	-0.45	54	37.84	33.07	12.54	29.9	121	29	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line. 3. The emission position marked as “-” means no suspected emission found and/or emission level has at least 6dB margin against limit or noise floor only.												



Band 2 5250~5350MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 58 5290MHz		10580	46.1	-22.1	68.2	56.93	39.02	17.96	67.81	-	-	P	H
		15870	47.3	-26.7	74	55.46	37.92	22.17	68.25	-	-	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		10580	46.45	-21.75	68.2	57.28	39.02	17.96	67.81	-	-	P	V
		15870	46.86	-27.14	74	55.02	37.92	22.17	68.25	-	-	P	V
													V
													V
													V
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													V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line. 3. The emission position marked as “-” means no suspected emission found and/or emission level has at least 6dB margin against limit or noise floor only.												

Band 3 - 5470~5725MHz
WIFI 802.11ac VHT40 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT40 CH 102 5510MHz		5446.72	55.69	-18.31	74	40.01	32.93	12.66	29.91	400	45	P	H
		5460.16	55.6	-12.6	68.2	39.91	32.92	12.68	29.91	400	45	P	H
		5459.68	46.73	-7.27	54	31.05	32.92	12.67	29.91	400	45	A	H
	*	5510	96.55	-	-	80.81	32.92	12.74	29.92	400	45	P	H
	*	5510	89.72	-	-	73.98	32.92	12.74	29.92	400	45	A	H
		5729.41	56.16	-12.04	68.2	39.65	33.5	12.97	29.96	400	45	P	H
		5459.44	64.74	-9.26	74	49.06	32.92	12.67	29.91	110	28	P	V
		5469.04	62.46	-5.74	68.2	46.76	32.92	12.69	29.91	110	28	P	V
		5459.68	50.06	-3.94	54	34.38	32.92	12.67	29.91	110	28	A	V
	*	5510	107.16	-	-	91.42	32.92	12.74	29.92	110	28	P	V
	*	5510	99.98	-	-	84.24	32.92	12.74	29.92	110	28	A	V
		5761.54	56.03	-12.17	68.2	39.29	33.7	13	29.96	110	28	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line. 3. The emission position marked as “-” means no suspected emission found and/or emission level has at least 6dB margin against limit or noise floor only.												



Band 3 - 5470~5725MHz

WIFI 802.11ac VHT40 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT40 CH 102 5510MHz		11020	46.85	-27.15	74	57.12	38.97	18.3	67.54	-	-	P	H
		16530	49.6	-18.6	68.2	56.06	38.29	22.72	67.47	303	44	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		11020	46.38	-27.62	74	56.65	38.97	18.3	67.54	-	-	P	V
		16530	48.79	-19.41	68.2	55.25	38.29	22.72	67.47	228	123	P	V
													V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												
	3. The emission position marked as “-” means no suspected emission found and/or emission level has at least 6dB margin against limit or noise floor only.												

Band 3 5470~5725MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 106 5530MHz		5450.8	56.26	-17.74	74	40.59	32.92	12.66	29.91	400	293	P	H
		5464.24	56.26	-11.94	68.2	40.57	32.92	12.68	29.91	400	293	P	H
		5459.2	47.29	-6.71	54	31.61	32.92	12.67	29.91	400	293	A	H
	*	5530	94.09	-	-	78.3	32.95	12.76	29.92	400	293	P	H
		1534	46.94	-7.06	54	46.64	25.61	6.57	31.88	111	257	A	H
	*	5530	86.2	-	-	70.41	32.95	12.76	29.92	400	293	A	H
		5454.64	61.22	-12.78	74	45.54	32.92	12.67	29.91	117	28	P	V
		5460.4	61.71	-6.49	68.2	46.02	32.92	12.68	29.91	117	28	P	V
		5445.28	52.21	-1.79	54	36.53	32.93	12.66	29.91	117	28	A	V
	*	5530	101.93	-	-	86.14	32.95	12.76	29.92	117	28	P	V
	*	5530	94.57	-	-	78.78	32.95	12.76	29.92	117	28	A	V
		5725.31	55.77	-12.43	68.2	39.29	33.47	12.97	29.96	117	28	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line. 3. The emission position marked as “-” means no suspected emission found and/or emission level has at least 6dB margin against limit or noise floor only.												



Band 3 5470~5725MHz

WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI Ant. 1+2	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11ac VHT80 CH 106 5530MHz		11060	46.18	-27.82	74	56.43	38.97	18.33	67.55	-	-	P	H
		16590	48.88	-19.32	68.2	55.42	38.29	22.77	67.6	166	42	P	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		11060	47.96	-26.04	74	58.21	38.97	18.33	67.55	-	-	P	V
		16590	50	-18.2	68.2	56.54	38.29	22.77	67.6	215	210	P	V
													V
													V
													V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line. 3. The emission position marked as “-” means no suspected emission found and/or emission level has at least 6dB margin against limit or noise floor only.												



Emission above 18GHz

5GHz WIFI 802.11ac VHT40 (SHF@ 1m)

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
5GHz 802.11ac VHT40 SHF		39340	55.6	-18.4	74	38.02	44.28	27.17	53.87	-	-	P	H
		39340	46.61	-27.39	74	29.03	44.28	27.17	53.87	-	-	A	H
													H
													H
													H
													H
													H
													H
													H
													H
													H
													H
		39318	56.25	-17.75	74	37.69	45.21	27.15	53.8	-	-	P	V
		39318	47.18	-26.82	74	28.62	45.21	27.15	53.8	-	-	A	V
													V
													V
													V
													V
													V
													V
													V
Remark	1. No other spurious found.												
	2. All results are PASS against Peak and Average limit line.												
	3. The emission position marked as “-” means no suspected emission found and/or emission level has at least 6dB margin against limit or noise floor only.												

Note symbol

*	Fundamental Frequency which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.
!	Test result is over limit line.
P/A	P eak or A verage
H/V	H orizontal or V ertical

A calculation example for radiated spurious emission is shown as below:

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1+2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11a		5150	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
CH 36													
5180MHz		5150	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

1. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)
2. Level(dBμV/m) = Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
3. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 5150MHz:

1. Level(dBμV/m)
= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)
= 55.45 (dBμV/m)
2. Over Limit(dB)
= Level(dBμV/m) – Limit Line(dBμV/m)
= 55.45(dBμV/m) – 74(dBμV/m)
= -18.55(dB)

For Average Limit @ 5150MHz:

1. Level(dBμV/m)
= Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)
= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)
= 43.54 (dBμV/m)
2. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)
= 43.54(dBμV/m) – 54(dBμV/m)
= -10.46(dB)

Both peak and average measured complies with the limit line, so test result is “PASS”.

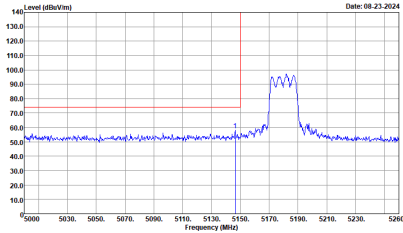
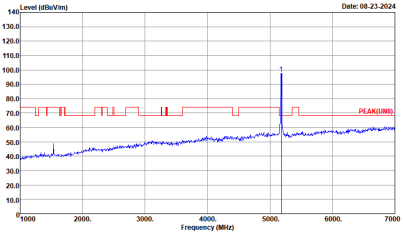
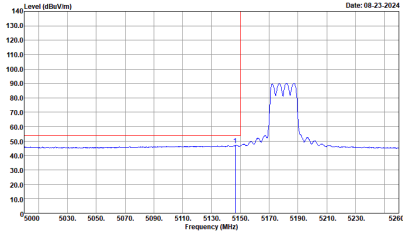
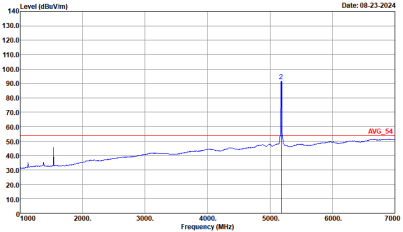


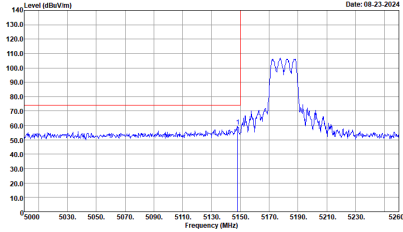
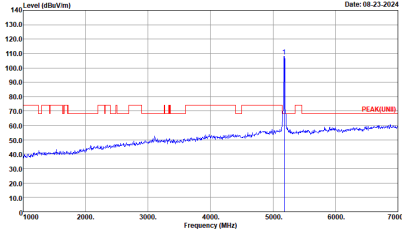
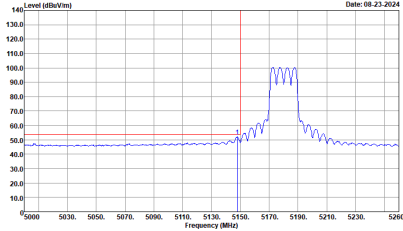
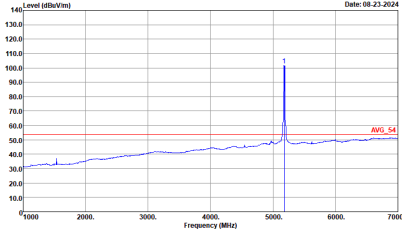
Note symbol

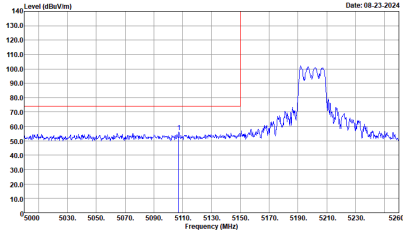
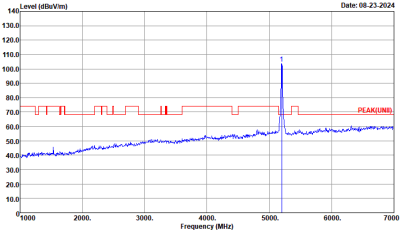
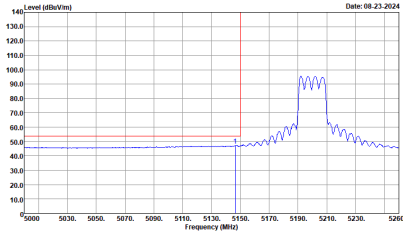
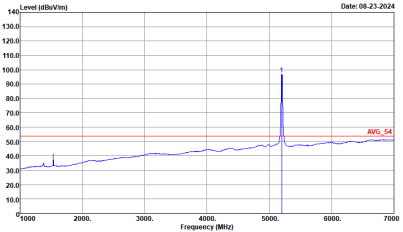
-L	Low channel location
-R	High channel location



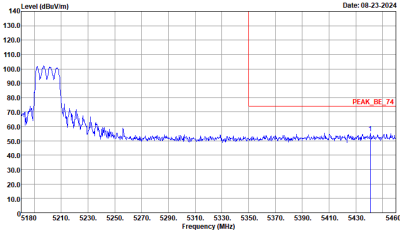
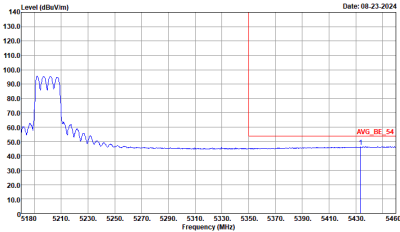
Band 1 - 5150~5250MHz
WIFI 802.11a (Band Edge @ 3m)

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE_74 3m HORN_02140_240129 HORIZONTAL Detector : Peak Plane : X Setting : 10.5	 Site : 03CH02-CA Condition : PEAK(FUND) 3m HORN_02140_240129 HORIZONTAL Detector : Peak Plane : X Setting : 10.5
Avg.	 Site : 03CH02-CA Condition : AVG_BE_54 3m HORN_02140_240129 HORIZONTAL Detector : Peak Plane : X Setting : 10.5	 Site : 03CH02-CA Condition : AVG_54 3m HORN_02140_240129 HORIZONTAL Detector : Peak Plane : X Setting : 10.5

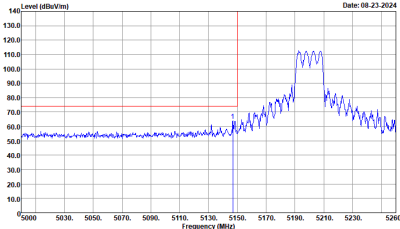
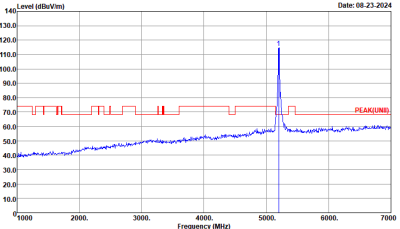
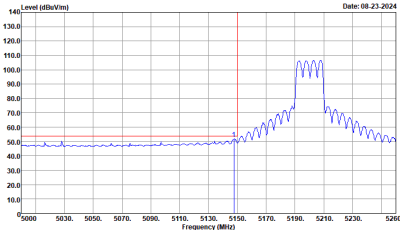
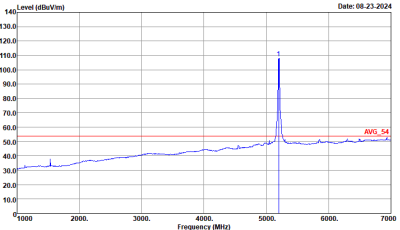
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH36 5180MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE_74 3m HORN_02140_240129 VERTICAL Detector : Peak Plane : X Setting : 10.5	 Site : 03CH02-CA Condition : PEAK(UNIT) 3m HORN_02140_240129 VERTICAL Detector : Peak Plane : X Setting : 10.5
Avg.	 Site : 03CH02-CA Condition : AVG_BE_54 3m HORN_02140_240129 VERTICAL Detector : Peak Plane : X Setting : 10.5	 Site : 03CH02-CA Condition : AVG_54 3m HORN_02140_240129 VERTICAL Detector : Peak Plane : X Setting : 10.5

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH40 5200MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE_74 3m HORN_02140_240129 HORIZONTAL Detector : RBW:1000.000kHz VSW:3000.000kHz SMT:Auto Plane : X Setting : 15.5	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN_02140_240129 HORIZONTAL Detector : RBW:1000.000kHz VSW:3000.000kHz SMT:Auto Plane : X Setting : 15.5
Avg.	 Site : 03CH02-CA Condition : AVG_BE_54 3m HORN_02140_240129 HORIZONTAL Detector : RBW:1000.000kHz VSW:1.000kHz SMT:Auto Plane : X Setting : 15.5	 Site : 03CH02-CA Condition : AVG_54 3m HORN_02140_240129 HORIZONTAL Detector : RBW:1000.000kHz VSW:1.000kHz SMT:Auto Plane : X Setting : 15.5

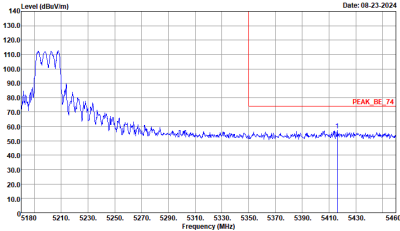
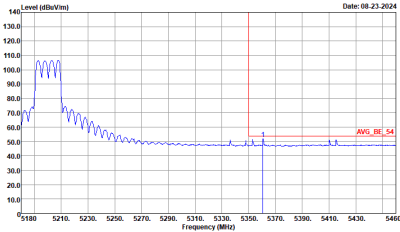


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH40 5200MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE_74 3m HORN_02140_240129 HORIZONTAL Detector : Peak Plane : X Setting : 15.5	Left Blank
Avg.	 Site : 03CH02-CA Condition : AVG_BE_54 3m HORN_02140_240129 HORIZONTAL Detector : Peak Plane : X Setting : 15.5	Left Blank

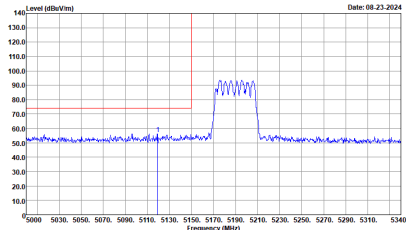
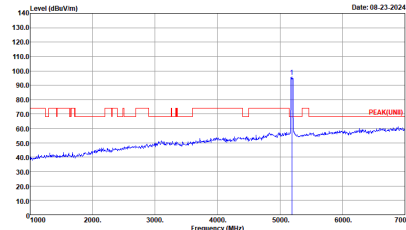
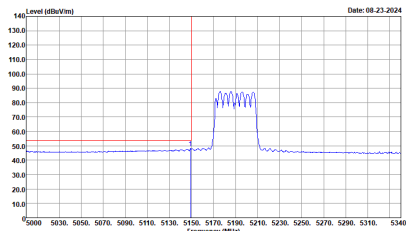
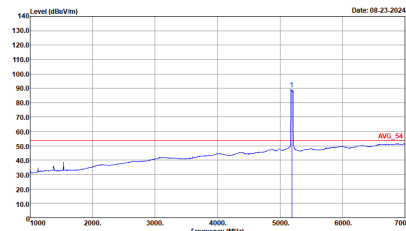


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH40 5200MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE_74 3m HORN_02140_240129 VERTICAL Detector : RBW:1000.000KHz VSW:3000.000KHz SMT:Auto Plane : X Setting : 15.5	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN_02140_240129 VERTICAL Detector : RBW:1000.000KHz VSW:3000.000KHz SMT:Auto Plane : X Setting : 15.5
Avg.	 Site : 03CH02-CA Condition : AVG_BE_54 3m HORN_02140_240129 VERTICAL Detector : RBW:1000.000KHz VSW:1.000KHz SMT:Auto Plane : X Setting : 15.5	 Site : 03CH02-CA Condition : AVG_54 3m HORN_02140_240129 VERTICAL Detector : RBW:1000.000KHz VSW:1.000KHz SMT:Auto Plane : X Setting : 15.5

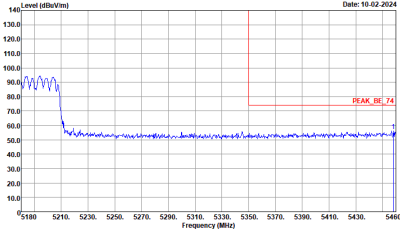
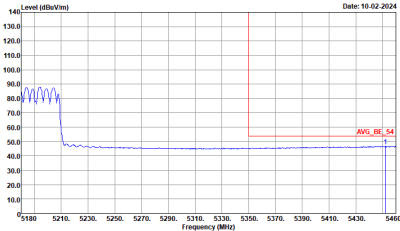


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11a CH40 5200MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE_74 3m HORN_02140_240129 VERTICAL Detector : Peak Plane : X Setting : 15.5	Left Blank
Avg.	 Site : 03CH02-CA Condition : AVG_BE_54 3m HORN_02140_240129 VERTICAL Detector : Peak Plane : X Setting : 15.5	Left Blank

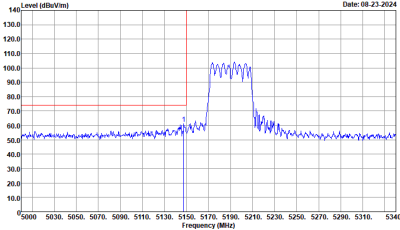
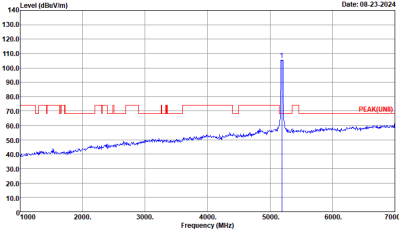
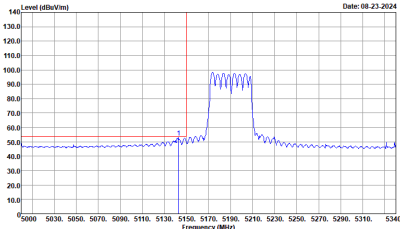
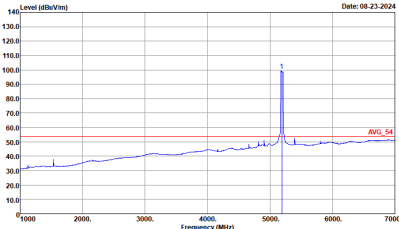
Band 1 5150~5250MHz
WIFI 802.11ac VHT40 (Band Edge @ 3m)

WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH38 5190MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE_74 3m HORN_02140_240129 HORIZONTAL Detector : Peak Plane : X Setting : 10 Date: 08-23-2024	 Site : 03CH02-CA Condition : PEAK(UNI) 3m HORN_02140_240129 HORIZONTAL Detector : Peak Plane : X Setting : 10 Date: 08-23-2024
Avg.	 Site : 03CH02-CA Condition : AVG_BE_54 3m HORN_02140_240129 HORIZONTAL Detector : Peak Plane : X Setting : 10 Date: 08-23-2024	 Site : 03CH02-CA Condition : AVG_54 3m HORN_02140_240129 HORIZONTAL Detector : Peak Plane : X Setting : 10 Date: 08-23-2024

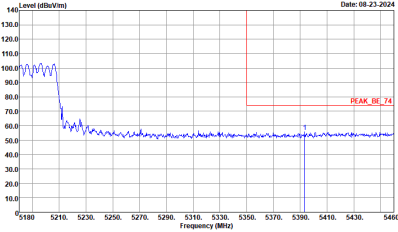
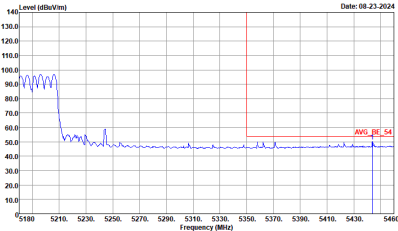


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH38 5190MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE_74 3m HORN_02140_240129 HORIZONTAL Detector : Peak Plane : X Setting : 10	Left blank
Avg.	 Site : 03CH02-CA Condition : AVG_BE_54 3m HORN_02140_240129 HORIZONTAL Detector : Peak Plane : X Setting : 10	Left blank

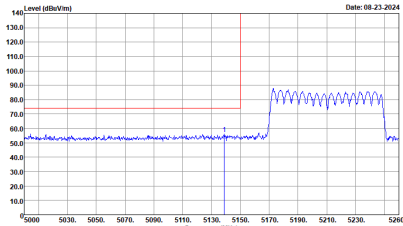
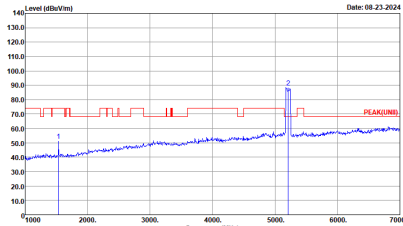
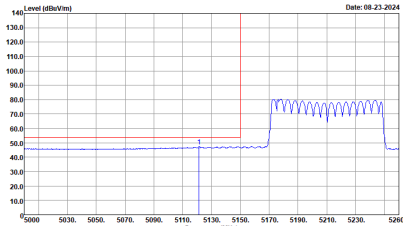
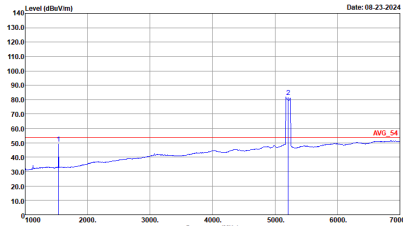


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH38 5190MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE_74 3m HORN_02140_240129 VERTICAL Detector : Peak Plane : X Setting : 10	 Site : 03CH02-CA Condition : PEAK(UNIT) 3m HORN_02140_240129 VERTICAL Detector : Peak Plane : X Setting : 10
Avg.	 Site : 03CH02-CA Condition : AVG_BE_54 3m HORN_02140_240129 VERTICAL Detector : Peak Plane : X Setting : 10	 Site : 03CH02-CA Condition : AVG_54 3m HORN_02140_240129 VERTICAL Detector : Peak Plane : X Setting : 10

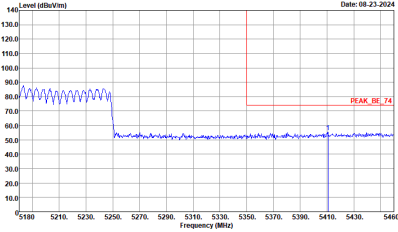
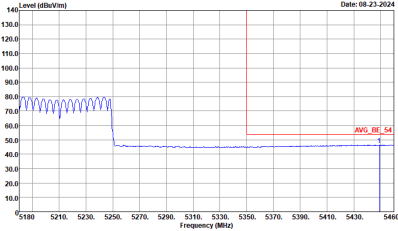


WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH38 5190MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE_74 3m HORN_02140_240129 VERTICAL Detector : Peak Plane : X Setting : 10	Left blank
Avg.	 Site : 03CH02-CA Condition : AVG_BE_54 3m HORN_02140_240129 VERTICAL Detector : Peak Plane : X Setting : 10	Left blank

Band 1 5150~5250MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

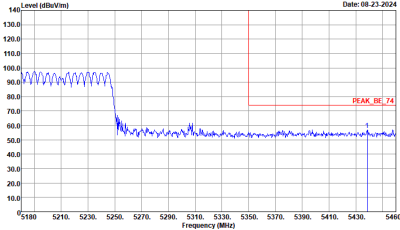
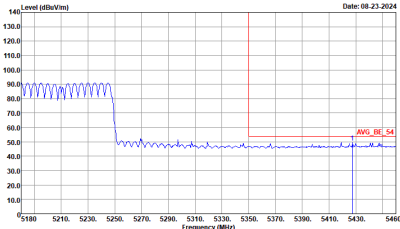
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE_74 3m HORN_02140_240129 HORIZONTAL Detector : Peak Plane : X Setting : 5.5	 Site : 03CH02-CA Condition : PEAK(UNI1) 3m HORN_02140_240129 HORIZONTAL Detector : Peak Plane : X Setting : 5.5
Avg.	 Site : 03CH02-CA Condition : AVG_BE_54 3m HORN_02140_240129 HORIZONTAL Detector : Peak Plane : X Setting : 5.5	 Site : 03CH02-CA Condition : AVG_54 3m HORN_02140_240129 HORIZONTAL Detector : Peak Plane : X Setting : 5.5



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE_74 3m HORN_02140_240129 HORIZONTAL Detector : Peak Plane : X Setting : 5.5	Left blank
Avg.	 Site : 03CH02-CA Condition : AVG_BE_54 3m HORN_02140_240129 HORIZONTAL Detector : Peak Plane : X Setting : 5.5	Left blank

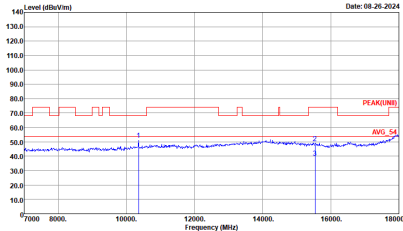
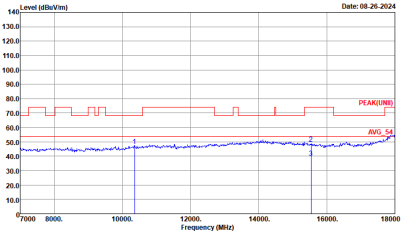
WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - L	
1+2	Vertical	Fundamental
Peak	Site : 03CH02-CA Condition : PEAK_BE_74 3m HORN_02140_240129 VERTICAL Detector : RBK:1000.000kHz VSW:3000.000kHz SMT:Auto Plane : X Setting : 5.5	Site : 03CH02-CA Condition : PEAK(UNIT) 3m HORN_02140_240129 VERTICAL Detector : RBK:1000.000kHz VSW:3000.000kHz SMT:Auto Plane : X Setting : 5.5
	Site : 03CH02-CA Condition : AVG_BE_54 3m HORN_02140_240129 VERTICAL Detector : RBK:1000.000kHz VSW:1.000kHz SMT:Auto Plane : X Setting : 5.5	Site : 03CH02-CA Condition : AVG_54 3m HORN_02140_240129 VERTICAL Detector : RBK:1000.000kHz VSW:1.000kHz SMT:Auto Plane : X Setting : 5.5



WIFI	Band 1 5150~5250MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE_74 3m HORN_02140_240129 VERTICAL Detector : Peak Plane : X Setting : 5.5	Left blank
Avg.	 Site : 03CH02-CA Condition : AVG_BE_54 3m HORN_02140_240129 VERTICAL Detector : Peak Plane : X Setting : 5.5	Left blank



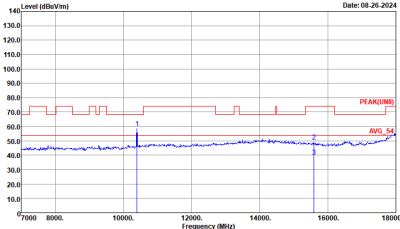
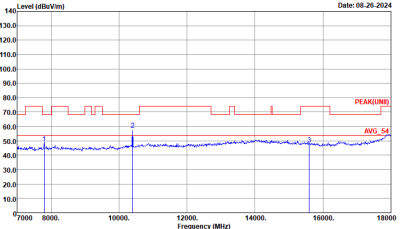
Band 1 - 5150~5250MHz
WIFI 802.11a (Harmonic @ 3m)

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH36 5180MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH02-CA Condition : PEAK(UNIT) 3m HORN_02140_240129 HORIZONTAL Detector : Peak Plane : AVR Power 120Vac/60Hz Setting : 10.5	 Site : 03CH02-CA Condition : PEAK(UNIT) 3m HORN_02140_240129 VERTICAL Detector : Peak Plane : AVR Power 120Vac/60Hz Setting : 10.5

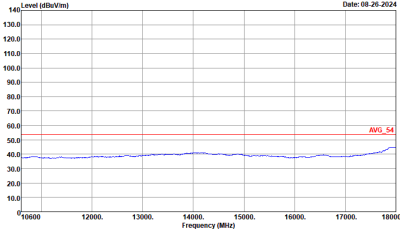
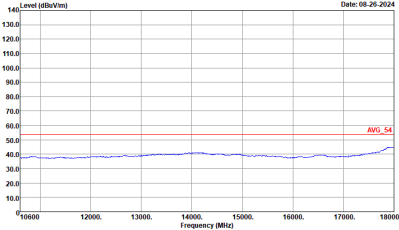


WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH36 5180MHz	
1+2	Horizontal	Vertical
10.6G ~18G Avg.	Site : 83CH02-CA Condition : AVG_54 3m HORN_02140_240129 HORIZONTAL Detector : Peak Plane : AVR Power 120Vac/60Hz Setting : 10.5	Site : 83CH02-CA Condition : AVG_54 3m HORN_02140_240129 VERTICAL Detector : Peak Plane : AVR Power 120Vac/60Hz Setting : 10.5



WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH36 5200MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN_02140_240129 HORIZONTAL Detector : Peak Plane : X Setting : 15.5	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN_02140_240129 VERTICAL Detector : Peak Plane : X Setting : 15.5



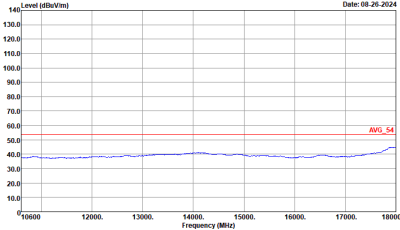
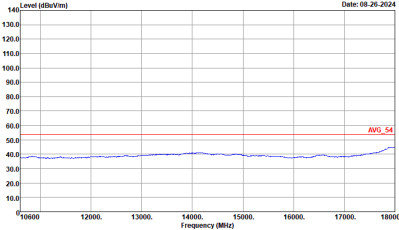
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11a CH40 5200MHz	
1+2	Horizontal	Vertical
10.6G ~18G Avg.	 Site : 03CH02-CA Condition : AVG_54 3m HORN_02140_240129 HORIZONTAL Detector : Peak Plane : AVR Power 120Vac/60Hz Setting : 15.5	 Site : 03CH02-CA Condition : AVG_54 3m HORN_02140_240129 VERTICAL Detector : Peak Plane : AVR Power 120Vac/60Hz Setting : 15.5



Band 1 5150~5250MHz
WIFI 802.11ac VHT40 (Harmonic @ 3m)

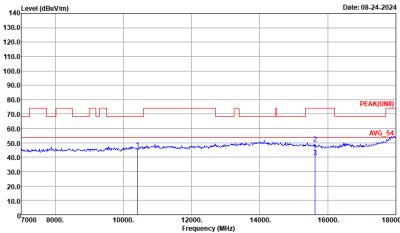
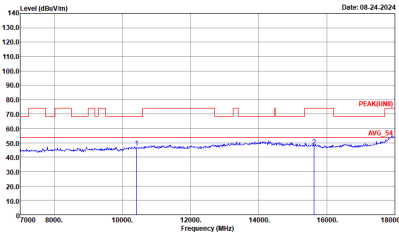
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT40 CH38 5190MHz	
1+2	Horizontal	Vertical
Peak Avg.	Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN_02140_240129 HORIZONTAL Detector : Peak Plane : X Setting : 10	Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN_02140_240129 VERTICAL Detector : Peak Plane : X Setting : 10



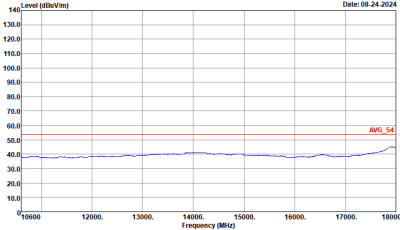
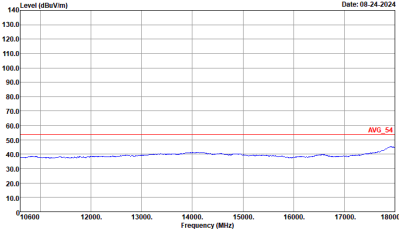
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT40 CH38 5190MHz	
1+2	Horizontal	Vertical
10.6G ~18G Avg.	 Site : 83CH02-CA Condition : AVG 54 3m HORN_02140_240129 HORIZONTAL Detector : Peak Plane : AVR Power 120Vac/60Hz Setting : 10	 Site : 83CH02-CA Condition : AVG 54 3m HORN_02140_240129 VERTICAL Detector : Peak Plane : AVR Power 120Vac/60Hz Setting : 10



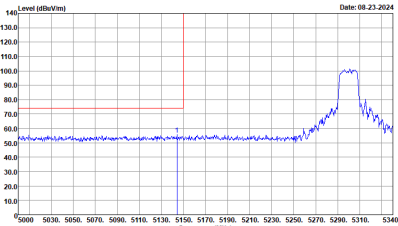
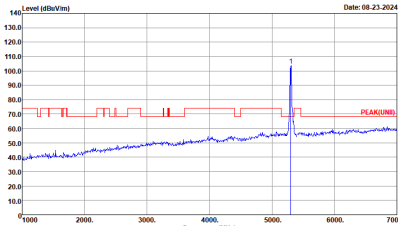
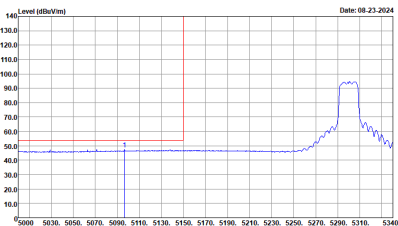
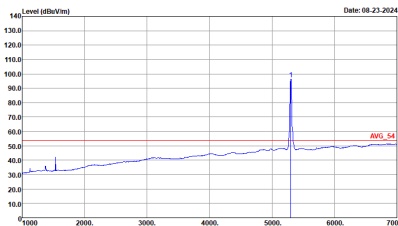
Band 1 5150~5250MHz
WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN_02140_240129 HORIZONTAL Detector : Peak Plane : AVR Power 120Vac/60Hz Setting : 5.5	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN_02140_240129 VERTICAL Detector : Peak Plane : AVR Power 120Vac/60Hz Setting : 5.5

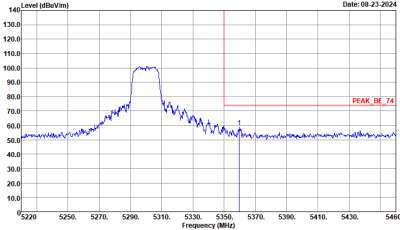
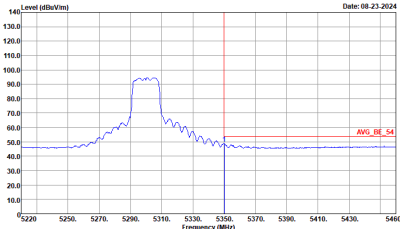


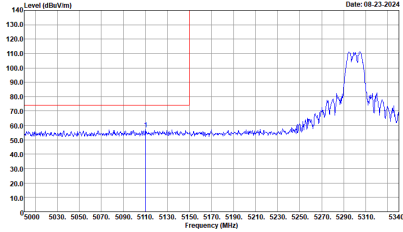
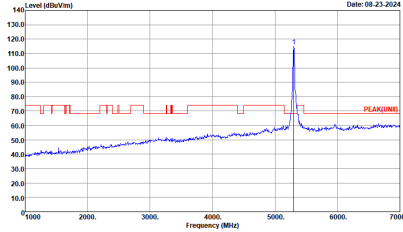
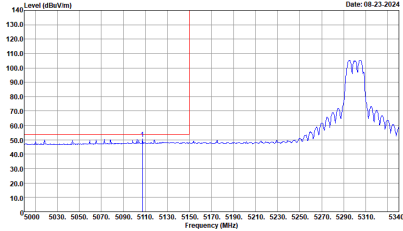
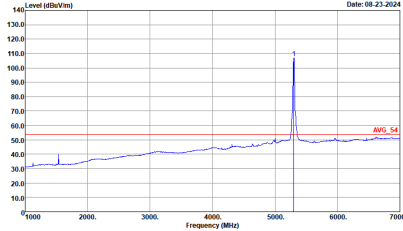
WIFI	Band 1 5150~5250MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH42 5210MHz	
1+2	Horizontal	Vertical
10.6G ~18G Avg.	 Site : 83CH02-CA Condition : AVG_54 3m HORN_02140_240129 HORIZONTAL Detector : Peak Plane : AVR Power 120Vac/60Hz Setting : 5.5	 Site : 83CH02-CA Condition : AVG_54 3m HORN_02140_240129 VERTICAL Detector : Peak Plane : AVR Power 120Vac/60Hz Setting : 5.5

Band 2 5250~5350MHz
WIFI 802.11a (Band Edge @ 3m)

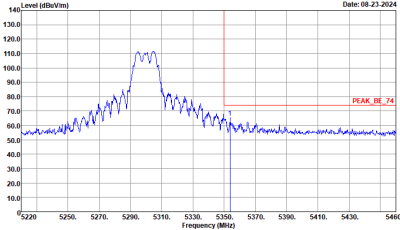
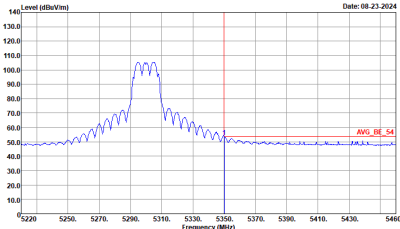
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE_74 3m HORN_02140_240129 HORIZONTAL Detector : Peak Plane : X Setting : 15.5	 Site : 03CH02-CA Condition : PEAK(UNI) 3m HORN_02140_240129 HORIZONTAL Detector : Peak Plane : X Setting : 15.5
Avg.	 Site : 03CH02-CA Condition : AVG_BE_54 3m HORN_02140_240129 HORIZONTAL Detector : Peak Plane : X Setting : 15.5	 Site : 03CH02-CA Condition : AVG_54 3m HORN_02140_240129 HORIZONTAL Detector : Peak Plane : X Setting : 15.5

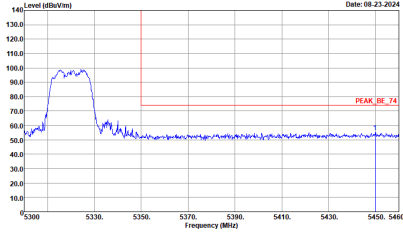
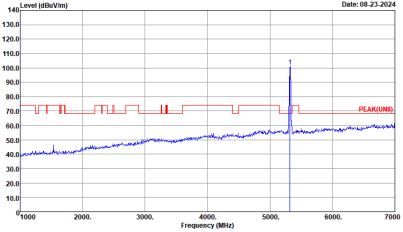
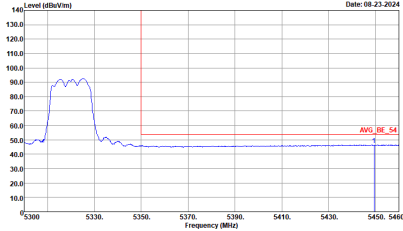
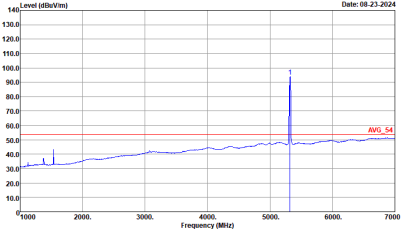


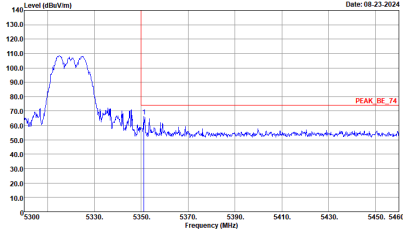
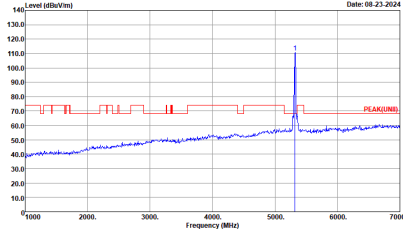
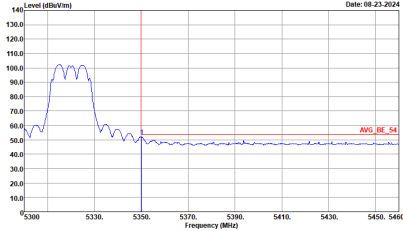
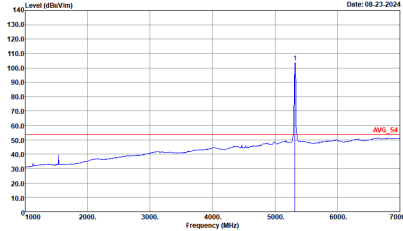
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE_74 3m HORN_02140_240129 HORIZONTAL Detector : Peak Plane : X Setting : 15.5	Left blank
Avg.	 Site : 03CH02-CA Condition : AVG_BE_54 3m HORN_02140_240129 HORIZONTAL Detector : Peak Plane : X Setting : 15.5	Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE_74 3m HORN_02140_240129 VERTICAL Detector : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto Plane : X Setting : 15.5	 Site : 03CH02-CA Condition : PEAK(UNIT) 3m HORN_02140_240129 VERTICAL Detector : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto Plane : X Setting : 15.5
	 Site : 03CH02-CA Condition : AVG_BE_54 3m HORN_02140_240129 VERTICAL Detector : RBW:1000.000kHz VBW:1.000kHz SMT:Auto Plane : X Setting : 15.5	 Site : 03CH02-CA Condition : AVG_54 3m HORN_02140_240129 VERTICAL Detector : RBW:1000.000kHz VBW:1.000kHz SMT:Auto Plane : X Setting : 15.5

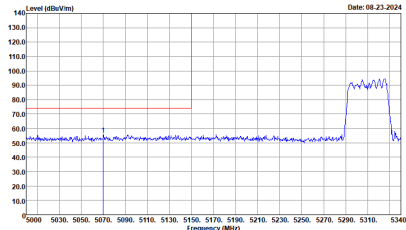
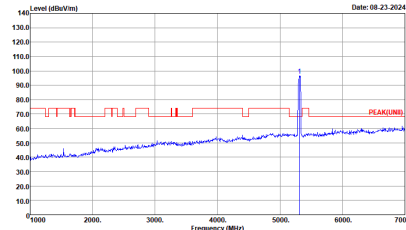
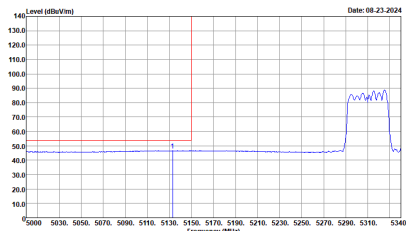
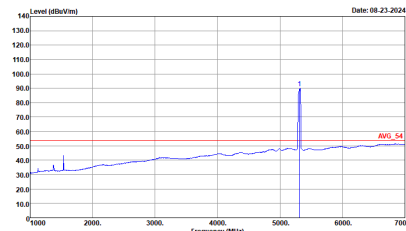


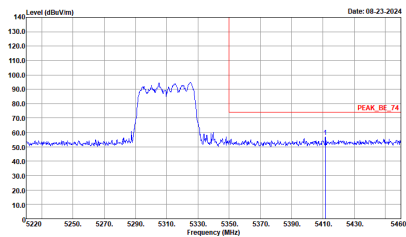
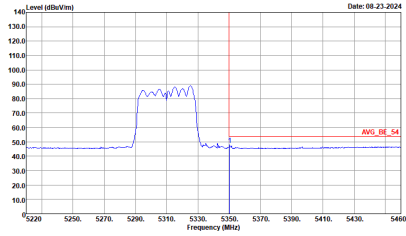
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH60 5300MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE_74 3m HORN_02140_240129 VERTICAL Detector : Peak Plane : X Setting : 15.5	Left blank
Avg.	 Site : 03CH02-CA Condition : AVG_BE_54 3m HORN_02140_240129 VERTICAL Detector : Peak Plane : X Setting : 15.5	Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE_74 3m HORN_02140_240129 HORIZONTAL Detector : Peak Plane : X Setting : 12.5	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN_02140_240129 HORIZONTAL Detector : Peak Plane : X Setting : 12.5
Avg.	 Site : 03CH02-CA Condition : AVG_BE_54 3m HORN_02140_240129 HORIZONTAL Detector : Peak Plane : X Setting : 12.5	 Site : 03CH02-CA Condition : AVG_54 3m HORN_02140_240129 HORIZONTAL Detector : Peak Plane : X Setting : 12.5

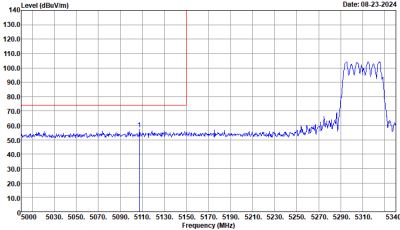
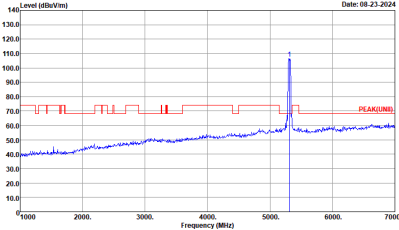
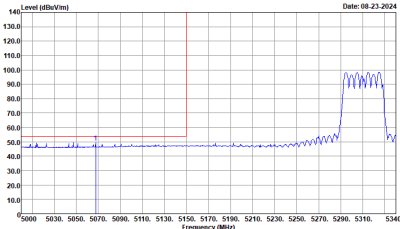
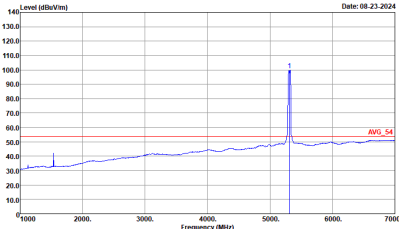
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11a CH64 5320MHz	
1+2	Vertical	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE_74 3m HORN_02140_240129 VERTICAL Detector : Peak Plane : X Setting : 12.5	 Site : 03CH02-CA Condition : PEAK(UNIT) 3m HORN_02140_240129 VERTICAL Detector : Peak Plane : X Setting : 12.5
Avg.	 Site : 03CH02-CA Condition : AVG_BE_54 3m HORN_02140_240129 VERTICAL Detector : Peak Plane : X Setting : 12.5	 Site : 03CH02-CA Condition : AVG_54 3m HORN_02140_240129 VERTICAL Detector : Peak Plane : X Setting : 12.5

Band 2 5250~5350MHz
WIFI 802.11ac VHT40 (Band Edge @ 3m)

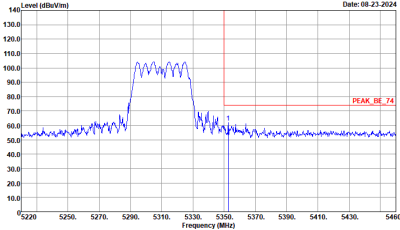
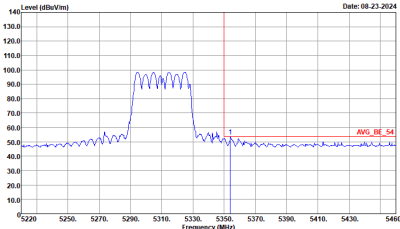
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH62 5310 - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE_74 3m HORN_02140_240129 HORIZONTAL Detector : Peak Plane : X Setting : 10 Date: 08-23-2024	 Site : 03CH02-CA Condition : PEAK(UNI1) 3m HORN_02140_240129 HORIZONTAL Detector : Peak Plane : X Setting : 10 Date: 08-23-2024
Avg.	 Site : 03CH02-CA Condition : AVG_BE_54 3m HORN_02140_240129 HORIZONTAL Detector : Peak Plane : X Setting : 10 Date: 08-23-2024	 Site : 03CH02-CA Condition : AVG_54 3m HORN_02140_240129 HORIZONTAL Detector : Peak Plane : X Setting : 10 Date: 08-23-2024

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH62 5310 - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE_74 3m HORN_02140_240129 HORIZONTAL Detector : Peak Plane : X Setting : 10	Left blank
Avg.	 Site : 03CH02-CA Condition : AVG_BE_54 3m HORN_02140_240129 HORIZONTAL Detector : Peak Plane : X Setting : 10	Left blank

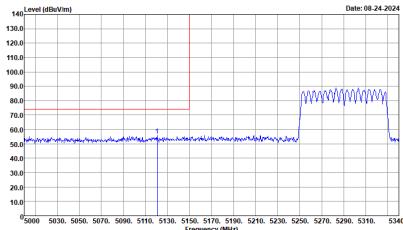
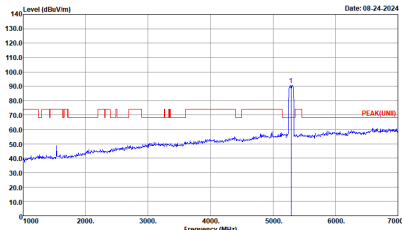
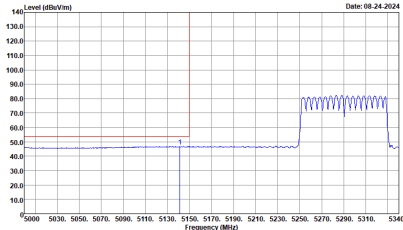
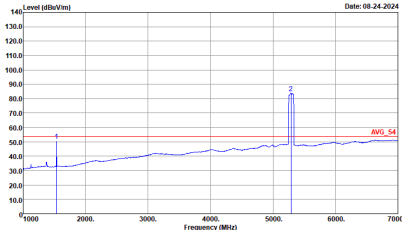


WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH62 5310 - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE_74 3m HORN_02140_240129 VERTICAL Detector : RBW:1000.000KHz VSW:3000.000KHz SMT:Auto Plane : X Setting : 10	 Site : 03CH02-CA Condition : PEAK(UNIT) 3m HORN_02140_240129 VERTICAL Detector : RBW:1000.000KHz VSW:3000.000KHz SMT:Auto Plane : X Setting : 10
Avg.	 Site : 03CH02-CA Condition : AVG_BE_54 3m HORN_02140_240129 VERTICAL Detector : RBW:1000.000KHz VSW:1.000KHz SMT:Auto Plane : X Setting : 10	 Site : 03CH02-CA Condition : AVG_54 3m HORN_02140_240129 VERTICAL Detector : RBW:1000.000KHz VSW:1.000KHz SMT:Auto Plane : X Setting : 10

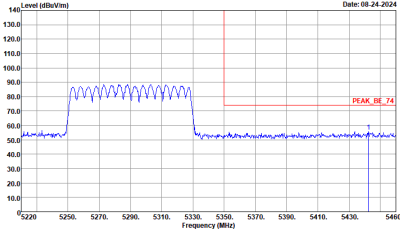
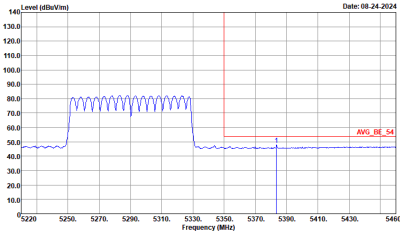


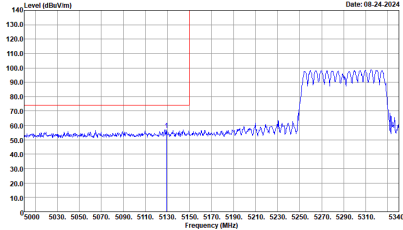
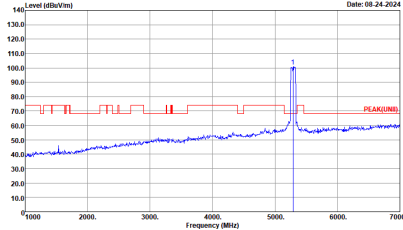
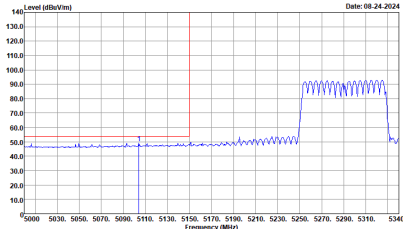
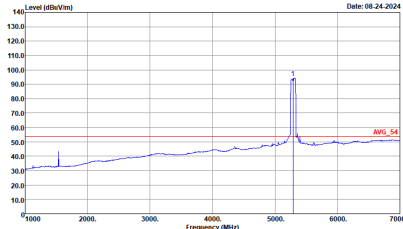
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH62 5310 - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE_74 3m HORN_02140_240129 VERTICAL Detector : Peak Plane : X Setting : 10	Left blank
Avg.	 Site : 03CH02-CA Condition : AVG_BE_54 3m HORN_02140_240129 VERTICAL Detector : Peak Plane : X Setting : 10	Left blank

Band 2 5250~5350MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

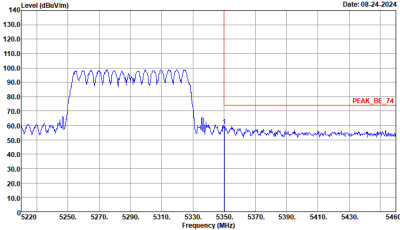
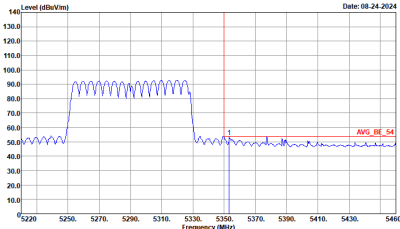
WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE_74 3m HORN_02140_240129 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SMT:Auto Plane : X Setting : 7.5	 Site : 03CH02-CA Condition : PEAK(UNI) 3m HORN_02140_240129 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SMT:Auto Plane : X Setting : 7.5
Avg.	 Site : 03CH02-CA Condition : AVG_BE_54 3m HORN_02140_240129 HORIZONTAL Detector : RBW:1000.000KHz VBW:1.000KHz SMT:Auto Plane : X Setting : 7.5	 Site : 03CH02-CA Condition : AVG_54 3m HORN_02140_240129 HORIZONTAL Detector : RBW:1000.000KHz VBW:1.000KHz SMT:Auto Plane : X Setting : 7.5



WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE_74 3m HORN_02140_240129 HORIZONTAL Detector : Peak Plane : X Setting : 7.5	Left blank
Avg.	 Site : 03CH02-CA Condition : AVG_BE_54 3m HORN_02140_240129 HORIZONTAL Detector : Peak Plane : X Setting : 7.5	Left blank

WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE_74 3m HORN_02140_240129 VERTICAL Detector : RBK:1000.000KHz VSW:3000.000KHz SMT:Auto Plane : X Setting : 7.5	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN_02140_240129 VERTICAL Detector : RBK:1000.000KHz VSW:3000.000KHz SMT:Auto Plane : X Setting : 7.5
Avg.	 Site : 03CH02-CA Condition : AVG_BE_54 3m HORN_02140_240129 VERTICAL Detector : RBK:1000.000KHz VSW:1.000KHz SMT:Auto Plane : X Setting : 7.5	 Site : 03CH02-CA Condition : AVG_54 3m HORN_02140_240129 VERTICAL Detector : RBK:1000.000KHz VSW:1.000KHz SMT:Auto Plane : X Setting : 7.5



WIFI	Band 2 5250~5350MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE_74 3m HORN_02140_240129 VERTICAL Detector : Peak Plane : X Setting : 7.5	Left blank
Avg.	 Site : 03CH02-CA Condition : AVG_BE_54 3m HORN_02140_240129 VERTICAL Detector : Peak Plane : X Setting : 7.5	Left blank



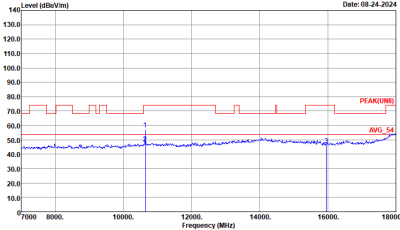
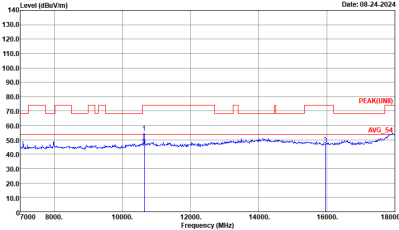
Band 2 5250~5350MHz
WIFI 802.11a (Harmonic @ 3m)

WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH60 5300MHz	
1+2	Horizontal	Vertical
Peak Avg.	Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN_02140_240129 HORIZONTAL Detector : Peak Plane : X Setting : 15.5	Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN_02140_240129 VERTICAL Detector : Peak Plane : X Setting : 15.5

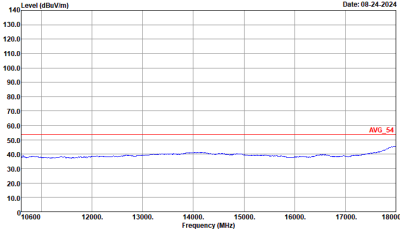
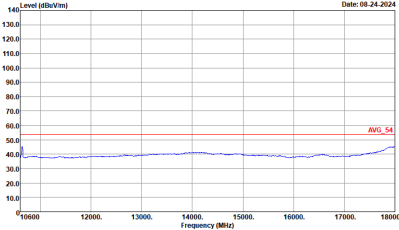


WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH60 5300MHz	
1+2	Horizontal	Vertical
10.6G ~18G Avg.	Level (dBuV/m) Date: 08-24-2024 Frequency (MHz) Site : 83CH02-CA Condition : AVG_54 3m HORN_02140_240129 HORIZONTAL Detector : Peak Plane : AVR Power 120Vac/60Hz Setting : 15.5	Level (dBuV/m) Date: 08-24-2024 Frequency (MHz) Site : 83CH02-CA Condition : AVG_54 3m HORN_02140_240129 VERTICAL Detector : Peak Plane : AVR Power 120Vac/60Hz Setting : 15.5



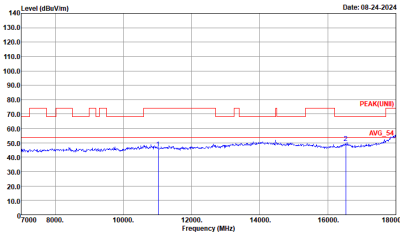
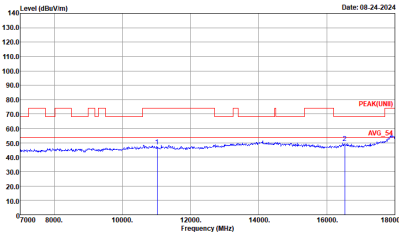
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH64 5320MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 83CH02-CA Condition : PEAK(UNII) 3m HORN_02140_240129 HORIZONTAL Detector : Peak Plane : AVR Power 120Vac/60Hz Setting : 12.5	 Site : 83CH02-CA Condition : PEAK(UNII) 3m HORN_02140_240129 VERTICAL Detector : Peak Plane : AVR Power 120Vac/60Hz Setting : 12.5



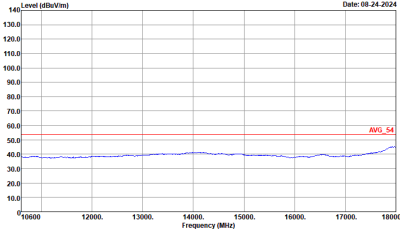
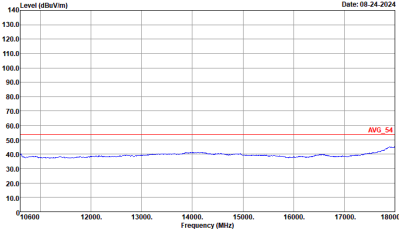
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11a CH64 5320MHz	
1+2	Horizontal	Vertical
10.6G ~18G Avg.	 Site : 83CH02-CA Condition : AVG_54 3m HORN_02140_240129 HORIZONTAL Detector : Peak Plane : AVR Power 120Vac/60Hz Setting : 12.5	 Site : 83CH02-CA Condition : AVG_54 3m HORN_02140_240129 VERTICAL Detector : Peak Plane : AVR Power 120Vac/60Hz Setting : 12.5



Band 2 5250~5350MHz
WIFI 802.11ac VHT40 (Harmonic @ 3m)

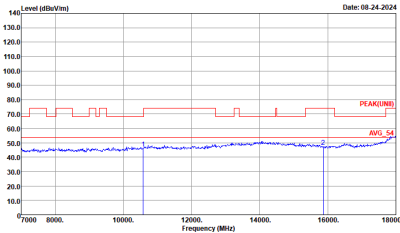
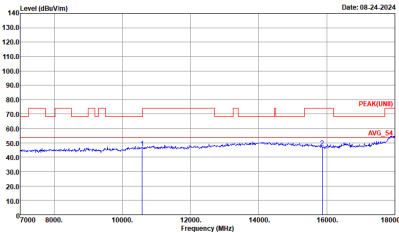
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11ac VHT40 CH62 5310	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN_02140_240129 HORIZONTAL Detector : Peak Plane : X Setting : 10	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN_02140_240129 VERTICAL Detector : Peak Plane : X Setting : 10



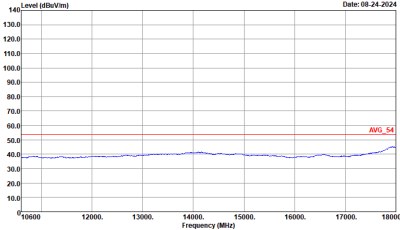
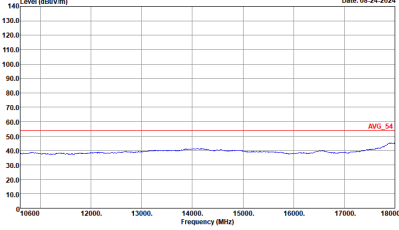
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11ac VHT40 CH62 5310	
1+2	Horizontal	Vertical
10.6G ~18G Avg.	 Site : 03CH02-CA Condition : AVG_54 3m HORN_02140_240129 HORIZONTAL Detector : Peak Plane : AVR Power 120Vac/60Hz Setting : 10	 Site : 03CH02-CA Condition : AVG_54 3m HORN_02140_240129 VERTICAL Detector : Peak Plane : AVR Power 120Vac/60Hz Setting : 10



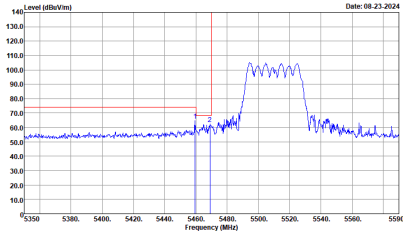
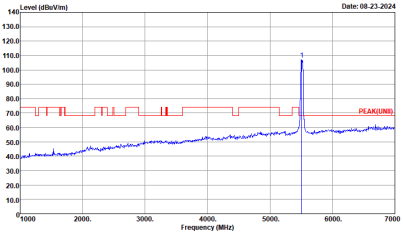
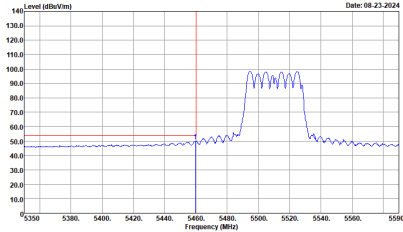
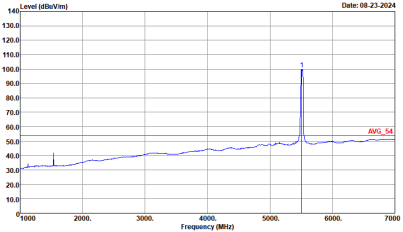
Band 2 5250~5350MHz
WIFI 802.11ac VHT80 (Harmonic @ 3m)

WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN_02140_240129 HORIZONTAL Detector : Peak Plane : AVR Power 120Vac/60Hz Setting : 7.5	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN_02140_240129 VERTICAL Detector : Peak Plane : AVR Power 120Vac/60Hz Setting : 7.5

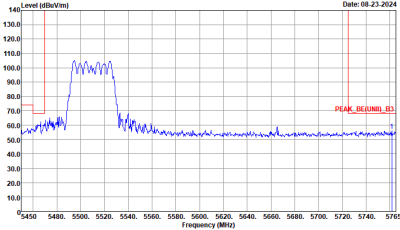


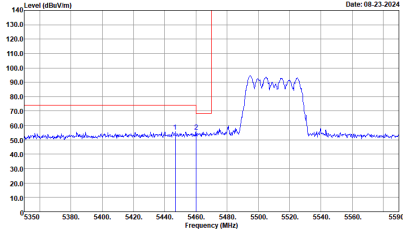
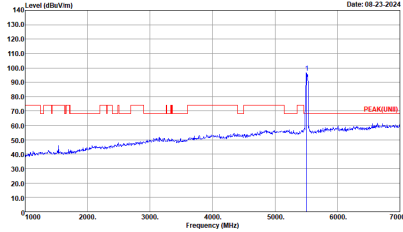
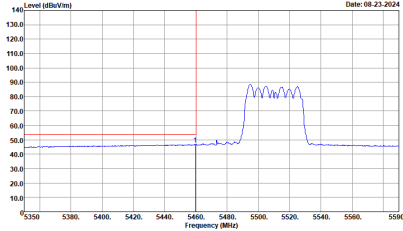
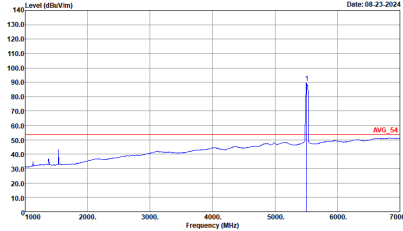
WIFI	Band 2 5250~5350MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH58 5290MHz	
1+2	Horizontal	Vertical
10.6G ~18G Avg.	 Site : 03CH02-CA Condition : AVG_54 3m HORN_02140_240129 HORIZONTAL Detector : Peak Plane : AVR Power 120Vac/60Hz Setting : X 7.5	 Site : 03CH02-CA Condition : AVG_54 3m HORN_02140_240129 VERTICAL Detector : Peak Plane : AVR Power 120Vac/60Hz Setting : X 7.5

Band 3 - 5470~5725MHz
WIFI 802.11ac VHT40 (Band Edge @ 3m)

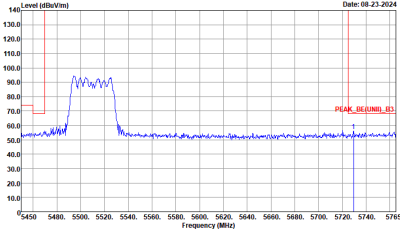
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH102 5510MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE(UN11)_B3 3m HORN_02140_240129 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SMT:Auto Detector : Peak AVR Power 120Vac/60Hz Plane : X Setting : 10.5	 Site : 03CH02-CA Condition : PEAK(FUN1) 3m HORN_02140_240129 VERTICAL RBW:1000.000kHz VBW:3000.000kHz SMT:Auto Detector : Peak AVR Power 120Vac/60Hz Plane : X Setting : 10.5
Avg.	 Site : 03CH02-CA Condition : AVG_BE(UN11)_B3 3m HORN_02140_240129 VERTICAL RBW:1000.000kHz VBW:1.000kHz SMT:Auto Detector : Peak AVR Power 120Vac/60Hz Plane : X Setting : 10.5	 Site : 03CH02-CA Condition : AVG_S4 3m HORN_02140_240129 VERTICAL RBW:1000.000kHz VBW:1.000kHz SMT:Auto Detector : Peak AVR Power 120Vac/60Hz Plane : X Setting : 10.5



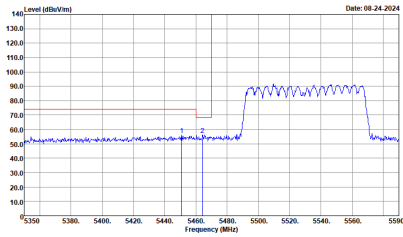
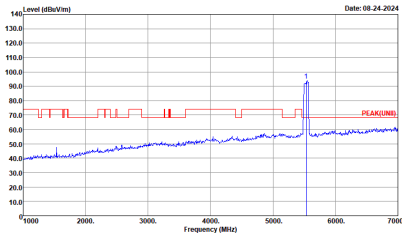
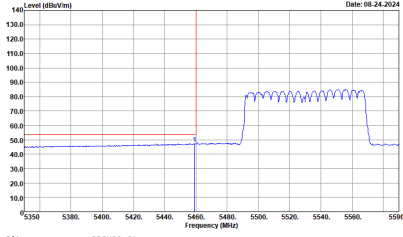
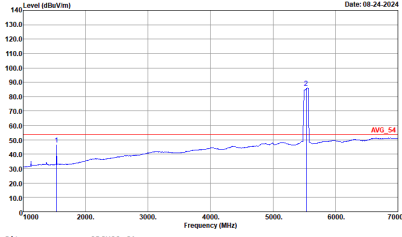
WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH102 5510MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 09CH02-CA Condition : PEAK_BE(UNII)_B3 3m HORN_02140_240129 VERTICAL Detector : Peak Plane : X Setting : 10.5 Date: 08-23-2024	Left blank

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH102 5510MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE(UNII)_B3 3m HORN_02140_240129 HORIZONTAL Detector : Peak Plane : X Setting : 10.5	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN_02140_240129 HORIZONTAL Detector : Peak Plane : X Setting : 10.5
Avg.	 Site : 03CH02-CA Condition : AVG_BE(UNII)_B3 3m HORN_02140_240129 HORIZONTAL Detector : Peak Plane : X Setting : 10.5	 Site : 03CH02-CA Condition : AVG_S4 3m HORN_02140_240129 HORIZONTAL Detector : Peak Plane : X Setting : 10.5

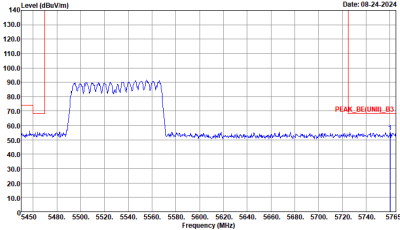


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT40 CH102 5510MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 82CH02-CA Condition : PEAK_BE(UNII)_B3 3m HORN_82140_240129 HORIZONTAL FBN:1000.000KHz VBN:3000.000KHz SNT:Auto Detector : Peak AVER Power 120Vac/60Hz Plane : X Setting : 10.5	Left blank

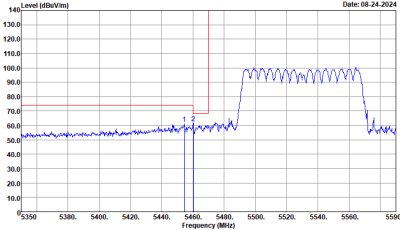
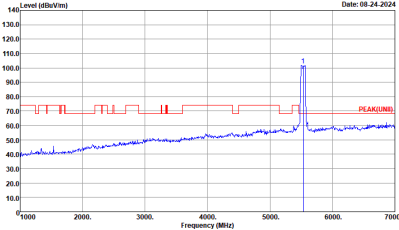
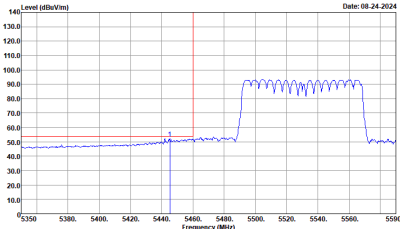
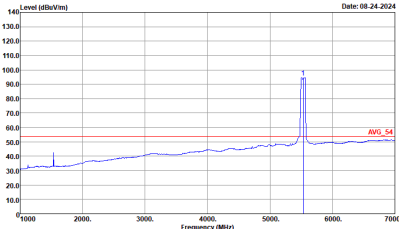
Band 3 5470~5725MHz
WIFI 802.11ac VHT80 (Band Edge @ 3m)

WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - L	
1+2	Horizontal	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE(UNI1)_B3 3m HORN_02140_240129 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SMT:Auto Plane : Peak Setting : AVR Power: 120Vac/60Hz Setting : 8.5	 Site : 03CH02-CA Condition : PEAK(UNI1) 3m HORN_02140_240129 HORIZONTAL Detector : RBW:1000.000KHz VBW:3000.000KHz SMT:Auto Plane : Peak Setting : AVR Power: 120Vac/60Hz Setting : X Setting : 8.5
Avg.	 Site : 03CH02-CA Condition : AVG_BE(UNI1)_B3 3m HORN_02140_240129 HORIZONTAL Detector : RBW:1000.000KHz VBW:1.000KHz SMT:Auto Plane : Peak Setting : AVR Power: 120Vac/60Hz Setting : X Setting : 8.5	 Site : 03CH02-CA Condition : AVG_S4 3m HORN_02140_240129 HORIZONTAL Detector : RBW:1000.000KHz VBW:1.000KHz SMT:Auto Plane : Peak Setting : AVR Power: 120Vac/60Hz Setting : X Setting : 8.5

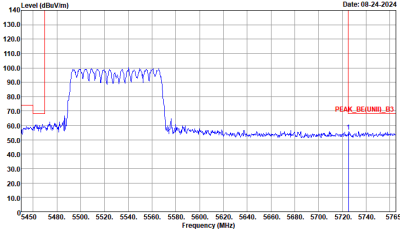


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - R	
1+2	Horizontal	Fundamental
Peak	 Site : 82CH02-CA Condition : PEAK_BE(UNII)_B3 3m HORN_82140_240129 HORIZONTAL Detector : Peak Plane : X Setting : 8.5 Date: 08-24-2024	Left blank



WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - L	
1+2	Vertical	Fundamental
Peak	 Site : 03CH02-CA Condition : PEAK_BE(UNII)_B3 3m HORN_02140_240129 VERTICAL Detector : Peak Plane : X Setting : 8.5	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN_02140_240129 VERTICAL Detector : Peak Plane : X Setting : 8.5
Avg.	 Site : 03CH02-CA Condition : AVG_BE(UNII)_B3 3m HORN_02140_240129 VERTICAL Detector : Peak Plane : X Setting : 8.5	 Site : 03CH02-CA Condition : AVG_S4 3m HORN_02140_240129 VERTICAL Detector : Peak Plane : X Setting : 8.5

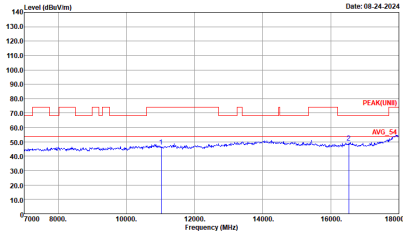
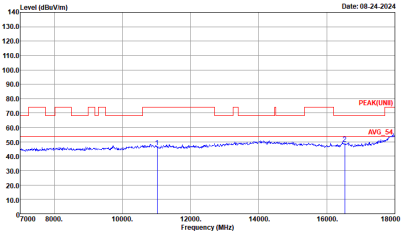


WIFI	Band 3 5470~5725MHz Band Edge @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz - R	
1+2	Vertical	Fundamental
Peak	 Site : 82CH02-CA Condition : PEAK_BE(UNII)_B3 3m HORN_82140_240129 VERTICAL Detector : Peak FBM:1000.000KHz VBN:3000.000KHz SMT:Auto Plane : X Setting : 8.5 Date: 08-24-2024	Left blank

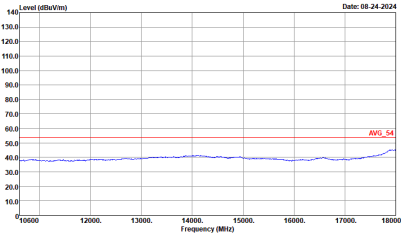
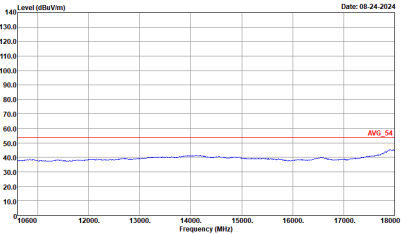


Band 3 - 5470~5725MHz

WIFI 802.11ac VHT40 (Harmonic @ 3m)

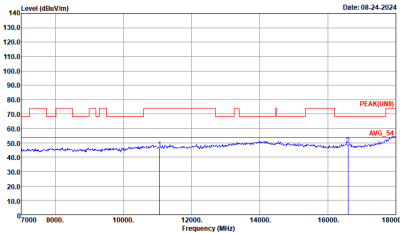
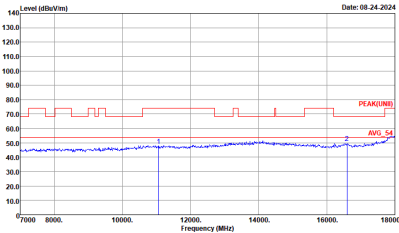
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11ac VHT40 CH102 5510MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH02-CA Condition : PEAK(UN1) 3m HORN_02140_240129 HORIZONTAL Detector : Peak Plane : AVR Power 120Vac/60Hz Setting : 10.5	 Site : 03CH02-CA Condition : PEAK(UN1) 3m HORN_02140_240129 VERTICAL Detector : Peak Plane : AVR Power 120Vac/60Hz Setting : 10.5



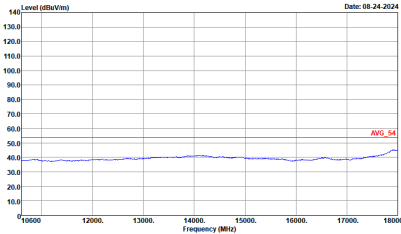
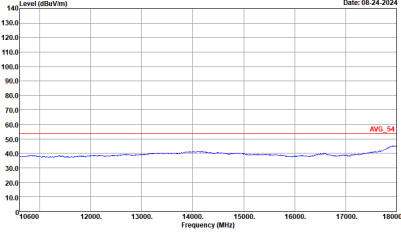
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11ac VHT40 CH102 5510MHz	
1+2	Horizontal	Vertical
10.6G ~18G Avg.	 Site : 03CH02-CA Condition : AVG_54 3m HORN_02140_240129 HORIZONTAL Detector : Peak Plane : AVR Power 120Vac/60Hz Setting : 10.5	 Site : 03CH02-CA Condition : AVG_54 3m HORN_02140_240129 VERTICAL Detector : Peak Plane : AVR Power 120Vac/60Hz Setting : 10.5



Band 3 5470~5725MHz
WIFI 802.11ac VHT80 (Harmonic @ 3m)

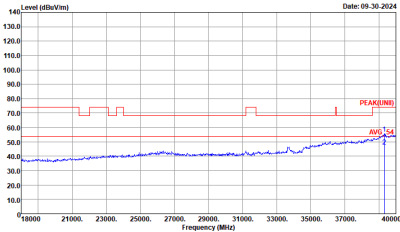
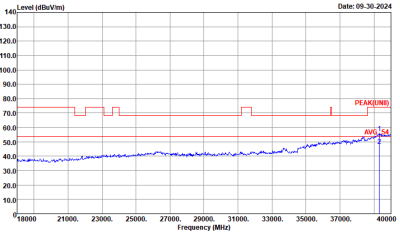
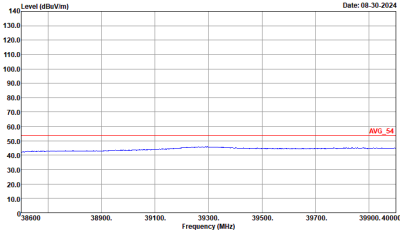
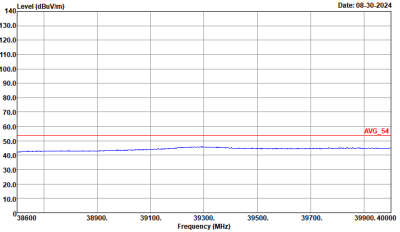
WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN_02140_240129 HORIZONTAL Detector : Peak AVR Power: 120Vac/60Hz Plane : X Setting : 0.5	 Site : 03CH02-CA Condition : PEAK(UNII) 3m HORN_02140_240129 VERTICAL Detector : Peak AVR Power: 120Vac/60Hz Plane : X Setting : 0.5



WIFI	Band 3 5470~5725MHz Harmonic @ 3m	
ANT	802.11ac VHT80 CH106 5530MHz	
1+2	Horizontal	Vertical
10.6G ~18G Avg.	 Site : 03CH02-CA Condition : AVG_54 3m HORN_02140_240129 HORIZONTAL Detector : Peak Plane : AVR Power 120Vac/60Hz Setting : 8.5	 Site : 03CH02-CA Condition : AVG_54 3m HORN_02140_240129 VERTICAL Detector : Peak Plane : AVR Power 120Vac/60Hz Setting : 8.5

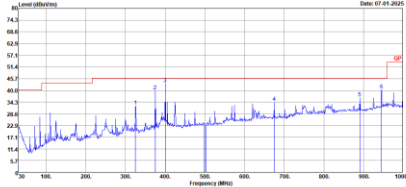
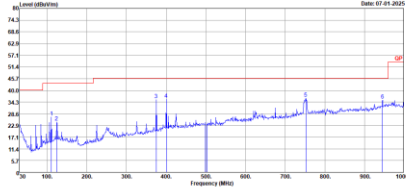


Emission above 18GHz
5GHz WIFI 802.11ac VHT80 (SHF @ 1m)

WIFI	5GHz WIFI	
ANT	802.11ac VHT40 SHF	
1+2	Horizontal	Vertical
Peak Avg.	 Site : 03CH02-CA Condition : PEAK(UNI1) 1m SHF_HORN_841_240807 HORIZONTAL Detector : Peak Power : AVR Power 120Vac/60Hz Plane : Z Setting : 10	 Site : 03CH02-CA Condition : PEAK(UNI1) 1m SHF_HORN_841_240807 VERTICAL Detector : Peak Power : AVR Power 120Vac/60Hz Plane : Z Setting : 10
38.6G ~40G AVG.	 Site : 03CH02-CA Condition : AVG_54 1m SHF_HORN_841_240807 VERTICAL Detector : Peak Power : AVR Power 120Vac/60Hz Plane : Z Setting : 10	 Site : 03CH02-CA Condition : AVG_54 1m SHF_HORN_841_240807 VERTICAL Detector : Peak Power : AVR Power 120Vac/60Hz Plane : Z Setting : 10



Emission below 1GHz
5GHz WIFI 802.11ac VHT80 (LF)

WIFI	5GHz WIFI	
ANT	802.11ac VHT40 LF	
1+2	Horizontal	Vertical
QP / Peak	 Site : 803CM2-CA Condition : QP 3m E10G_58392_248813_H HORIZONTAL RBW:120.000kHz VBW:300.000kHz SMT:0.500uac Detector : Peak Power : 40W Power 120Wac/60Hz Plane : Z Setting : 17.5	 Site : 803CM2-CA Condition : QP 3m E10G_58392_248813_H VERTICAL RBW:120.000kHz VBW:300.000kHz SMT:0.500uac Detector : Peak Power : 40W Power 120Wac/60Hz Plane : Z Setting : 17.5



Appendix D. Duty Cycle Plots

Band	Duty Cycle (%)	T(us)	1/T(kHz)	VBW Setting
802.11a	90.97	1310	0.76	1kHz
5GHz 802.11ac VHT20	91.00	1315	0.76	1kHz
5GHz 802.11ac VHT40	91.30	1575	0.63	1kHz
5GHz 802.11ac VHT80	90.73	1096	0.91	1kHz

